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COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FACULTY AND PROGRAM OF STUDY

January 9, 1961, 11:00 a.m., Statler Hilton Hotel, Boston, Mass.

Chairman Crowley presiding

PRESENT: Trustees Brown, Crowley, Haigis, Schuck, President Lederle, Secretary Gillespie, Treasurer Johnson, Provost McCune and Dean Woodside

After reviewing proposed new undergraduate courses, new graduate courses, new graduate program as well as proposed deletion of courses from the University catalogue, it was

VOTED: To recommend to the Board of Trustees that it approve new undergraduate courses, graduate courses, graduate program and the deletion of courses listed in Attachment A to these minutes and hereby made a part of these minutes.

New - Courses

Provost McCune discussed the average work load of a faculty member. He pointed out that the University has a concept of a "service" load rather than a "teacher" load because a University teacher should do research along with his teaching assignment. To make certain that the courses at the University do not unduly proliferate, Provost McCune pointed out that each school has a course of study committee that keeps constant surveillance over proposals for new courses. Also at the University, there is a rule that an undergraduate class must enroll at least ten students and a graduate course must enroll at least five students. If some courses do not attract the required number of students, then the course is not taught, and if such a condition persists then eventually the course is eliminated from the curriculum.

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Associate Degree - Stockbridge School

The President discussed the Stockbridge School program and the rather unique but substantial role it plays in education. At the request of Stockbridge School students and the Stockbridge School faculty, he recommended that the program be recognized with the awarding of an associate degree to its graduates.

On motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that it approve an associate degree for Stockbridge School graduates who have met standards set by the faculty of the Stockbridge School. The associate degree is to be awarded beginning with the graduating class of 1961.

Shannon McCune discussed the ROTC program and its developments at the University of Massachusetts. He announced that the Faculty Senate had appointed a committee to study the program and that the Committee on Faculty and Program of Study would soon receive their report from the faculty committee.

The committee adjourned at 12:15 p.m.

John Gillespie

John Gillespie
Secretary, Board of Trustees

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS AND GROUNDS

January 15, 1961, 1:00 p.m., University Commons, U of M

Chairman Whitmore presiding

PRESENT: Trustees Brett, Haigis, Schuck, Whitmore, President Lederle. Also Secretary Gillespie, Treasurer Johnson and Construction Engineer Hugill

Natural Resources Building

Final plans and specifications for the Natural Resources Building were studied and reviewed. Mr. Brett questioned the need for such a building. It was

VOTED: To approve the final plans and specifications of the Natural Resources Building.

(Voting in favor of the motion were Whitmore, Haigis and Lederle; voting against approval - Brett; present but not voting - Schuck.)

Science Center - fourth section

The final plans and specifications for the fourth section of the Science Center were reviewed and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that they approve the final plans and specifications for the Science Center - fourth section.

Physics Building

The final plans and specifications for the addition to the Physics Building were reviewed and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that they approve the final plans and specifications for the addition to the Physics Building.

Preliminary plans of the Men's Physical Education Building were studied. This is to be an intramural and teaching building primarily. On motion duly made and seconded, it was

Physical Education Building COMMITTEE

VOTED: To approve the preliminary plans of the Men's Physical Education Building.

The Planning Board of the Town of Amherst and the University of Massachusetts Planning Council joined the meeting. A discussion of the master plan development of the University was held. It was requested by the Planning Board of the Town of Amherst that the Board of Trustees at its February meeting issue a definitive statement as to its attitude toward the proposed location of a bank and other commercial activity on property adjacent to the campus. The Planning Board has felt that there may be an effort at the next town meeting to change the zoning of adjacent property from residential to business use. They wish to cooperate with the Board of Trustees by trying to keep the property in question as "residential", if the Board of Trustees plans to incorporate that territory into the campus.

One member of the Planning Board also requested that the Trustees express their attitude toward the new fraternity-sorority location which has been proposed at the southwest edge of the campus. This development would be built by private investors on land not owned by the Commonwealth. However, a portion of the proposed site on North Hadley Road is land shown on the master plan for University acquisition.

Eastman Lane

Question whether the town should abandon Eastman Lane to the University was discussed but no decision was reached.

Land

President Lederle summed up the lengthy discussion by recommending that all land adjacent to the campus covered by the Trustee vote of December 10, 1960 be acquired as soon as appropriations can be obtained. Further study will result in increased

COMMITTEE

cost and infringement by business. Highest priority should be given to the low land southeast of alumni field. High priority should also be given to land to the north of campus. It was

VOTED: To recommend to the full Board that the Trustees inform the Amherst Town Planning Board that the Trustees intend to press for appropriations to acquire all land adjacent to the campus as per prior vote of the Trustees of December 10, 1960.

School of Business Administration Building

Revised architectural plans and renderings of the exterior of the School of Business Administration Building were presented. These changes were proposed by the designers, Campbell and Aldrich of Boston on their own initiative to make a more attractive building over that previously approved by the Trustees. The changes were made by the architect without cost to the Commonwealth. It was

VOTED: To accept the revised design of the School of Business Administration Building.

Miss Schuck requested permission of the chairman to change her vote on the preliminary plans on the Men's Physical Education Building so as to be recorded as opposed to the design.

Teaching Auditorium

Since there has been a one-year delay in obtaining appropriations to build the School of Business Administration Building, it is apparent that there is a need for the next unit of the group - namely the 500-seat teaching auditorium. It was

VOTED: To request the Division of Building Construction Commission on Administration and Finance, to increase the scope of the project for the School of Business Administration to include a 500-seat teaching auditorium as shown on the study plans and model.

The meeting adjourned at 6:25 p.m.

John Gillespie

John Gillespie
Secretary, Board of Trustees

SCHEDULE OF COURSES
First Semester

MONDAY
4:15 P. M.

Education 171: May Method and Curriculum
Latin 51: Roman Drama
Spanish 21: Advanced Spanish

6:30 P. M.

English 1: English Composition (S.S.)
English 2: English Composition (A.S.)
Mathematics 2: Analytic Geometry

7:30 P. M.

History 3: Early Christian Civilization
Philosophy 1: Dialectics
Philosophy 23: Cosmology
Philosophy 107: Special Ethics
Social Science 115: Marriage

TUESDAY
6:30 P. M.

Mathematics 1: College Algebra and Trigonometry
Social Science 51: Fundamental Sociology

7:30 P. M.

English 21: Art of Rhetoric
Physics 41: Mechanics and Heat
Religion 1 and 2: Divinity and Church of Christ

8:30 P. M.

Latin 1: Latin Composition
Religion 51: Christian Life and Worship

WEDNESDAY
4:15 P. M.

Education 211: Mental Health
English 125: Shakespeare
French 101: History French Civilization

6:30 P. M.

English 3: English Composition (S.S.)
English 4: English Composition (A.S.)
Mathematics 41: Differential Calculus
Philosophy 21: Deontology
Philosophy 31: Cosmology

7:30 P. M.

French 1: Elementary French ..... Room 3
History 51: United States History ..... Room 2

FRIDAY

4:15 P.M.

Education 61: Philosophy of Education ..... Room 6
Education 63: Psychology of Child Guidance ..... Room 2
Biology 105: Physiology ..... Room 3
Philosophy 109: Natural Theology ..... Room 4

6:30 P. M.

English 2: Art of Rhetoric ..... Room 3
Mathematics 41: Differential Calculus ..... Room 4
Philosophy 61: Ontology ..... Room 2
Religion and 2: Divinity and Church of Christ ..... Room 5
Social Science 51: Fundamental Sociology ..... Room 6

7:30 P. M.

Mathematics 2: Analytic Geometry ..... Room 3
Philosophy 1: Dialectics ..... Room 5
Spanish 2: Advanced Spanish ..... Room 2
Social Science 117: Sociology of Industrial Relations ..... Room 4

8:30 P. M.

Mathematics 1: Algebra and Trigonometry ..... Room 5

SATURDAY

9:30 A. M.

Biology 3: Cultural Biology ..... University Heights
German 1: Elementary German ..... Room 3
History 7: Decline of Middle Ages ..... Room 2
Philosophy 55: Fundamental Psychology ..... Room 4
Philosophy 107: Special Ethics ..... Room 5

11:30 A. M.

Education 75: Massachusetts School Law ..... Room 3
English 7: History of Literature ..... Room 4
Latin 1: Pro Lege Manilia ..... Room 5

Second Semester

MONDAY

4:15 P. M.

Education 77: Map Making and Topography ..... Room 3
Latin 7: Elegiac Poets ..... Room 4
Spanish 2: Advanced Spanish ..... Room 2

6:30 P. M.

English 1: English Composition ..... Room 5
Latin 2: Cicero and Horace ..... Room 6
Philosophy 107: Special Ethics ..... Room 3

7:30 P. M.

History 7: Middle Ages ..... Room 2
Philosophy 2: Epistemology ..... Room 5
Philosophy 105: Advanced Psychology ..... Room 3
Social Science 103: The Family ..... Room 6

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON
FACULTY AND PROGRAM OF STUDY

COMMITTEE

February 7, 1961, 11:30 a.m., Statler Hilton Hotel, Boston

Chairman Crowley presiding

PRESENT: Trustees Crowley, Haigis, Kiernan, Schuck. Also, President Lederle, Secretary Gillespie, Acting Provost Woodside

Department of Microbiology

President Lederle recommended that the name of the Department of Bacteriology and Public Health be changed as follows:

> Abolish the present name and create a new department to be called the Department of Microbiology. This department would remain in the College of Arts and Sciences.

He also recommended the

> Transfer of work in Public Health to the School of Nursing. These changes would take place upon retirement of the present Head of the Department on July 1, 1961.

The President said that he was convinced that the above changes are in line with modern developments in this highly technical field. The new name symbolizes the fact that great emphasis is now placed upon viruses as well as on bacteriology as a field of study. These changes were included in the recommendations of a special advisory committee which was brought to the campus by the administration to study the programs in these areas.

On recommendation of the President and on motion duly made and seconded, it was

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COMMITTEE

VOTED: To recommend to the Board of Trustees that the name of the present Department of Bacteriology and Public Health be changed to the Department of Microbiology within the College of Arts and Sciences and that work in Public Health will be transferred to the School of Nursing effective July 1, 1961.

The meeting adjourned at 12:15 p.m.

John Gillespie

John Gillespie
Secretary, Board of Trustees

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UNIVERSITY OF MASSACHUSETTS

COMMITTEE

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF COMMITTEE ON LEGISLATION

February 13, 1961, State House, Boston, Mass.

Chairman Fox presiding

PRESENT: Trustees Fox, Whitmore, Thompson, Haigis, Healey, Also, President Lederle, Secretary Gillespie, Treasurer Johnson

The committee discussed bills affecting the University of Massachusetts.

Those bills which would establish a branch of the University of Massachusetts in the Boston area and would provide for the same quality and same curriculum as now offered at the Amherst campus were favored by the committee.

House Bill 1800, which calls for consolidation of public higher education in Massachusetts by placing the state colleges and institutes under the direction of the University of Massachusetts, was considered at length. It was the consensus of the committee that if the Legislature in its wisdom were to decide at this time all public higher education in Massachusetts should be consolidated, the University would do its best to operate the system. The committee reiterated that the chief interest now is maintaining a quality institution at Amherst with an expansion to take care of the growing needs of Massachusetts. It was felt that the Massachusetts system of higher education should not be reorganized hastily and without proper study. It was the committee's recommendation that the whole field of consolidated public higher education be studied and a report made to the Legislature for possible action at a later date.

Public Higher Education

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House Bills 2076, 2075 and 2376 introduced by Representative Kaplan were discussed as to their timeliness. It was the consensus of the committee that action on these bills be held up at this time.

Medical School

The committee discussed at length the proposals for a Medical School. Because of a lack of unanimity of feeling in regard to a two-year and a four-year Medical School and its location, the committee decided to request the full Board of Trustees at its next meeting to take a stand on a Medical School.

The meeting adjourned at 6:00 p.m.

John Gillespie
Secretary, Board of Trustees

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF THE MEETING OF THE AD HOC HONORARY DEGREE COMMITTEE

March 1, 1961, 10:30 a.m., Statler Hilton Hotel, Boston, Mass.

Chairman Brett presiding

PRESENT: Trustees Brett, Haigis, Healey, Schuck, Thompson and President Lederle, Secretary Gillespie

The following is a rough draft of a policy statement pertaining to the awarding of honorary degrees tentatively adopted by the committee.

Honorary Degree Policy

Honorary Degree Policy

Candidates for an honorary degree must be men and women of great distinction.

Factors which will be considered by the Trustees in granting honorary degrees are: (a) intellectual attainment of a high order in their field (b) outstanding achievement of which the University wishes to indicate its approval (c) extraordinary contribution to the well-being of the University or to the Commonwealth.

The number of honorary degrees awarded will be limited in number in order to emphasize the honor being bestowed.

Procedure

1. The faculty through the President, the alumni through their organization, and individual trustees may submit names and biographical material to the Executive Committee of the University Trustees annually in November.

2. The Executive Committee shall submit biographical material on all persons considered to all members of the Board of Trustees.

3. The Executive Committee shall screen the candidates and make recommendations to the Board of Trustees. The Trustees will be allowed time to consider the nominees between meetings and to vote on them at the annual meeting in February.

4. The President of the University will notify all recipients, informing them of the character of the award and the date of the commencement.

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5. No degree will be awarded in absentia in a place other than the campus of the University except in extraordinary circumstances.

The committee agreed to hold its second meeting on April 6 at 10:30 a.m. at the University of Massachusetts to consider proposals of other awards and to act on recommendations for honorary degrees.

The meeting adjourned at 12:15 p.m.

John Gillespie
Secretary, Board of Trustees

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON AGRICULTURE & HORTICULTURE

March 27, 1961, 12:15 p.m., Parker House, Boston, Mass.

Chairman Brett presiding

PRESENT: Trustees Brett, Crowley, McNamara, Whitmore. President Lederle, Secretary Gillespie, Treasurer Johnson

The Committee conferred with Arless A. Spielman and discussed with him problems confronting a College of Agriculture.

On recommendation of the President and on motion duly made and seconded, it was

Fees for Seed Testing

VOTED: To recommend that the Board of Trustees approve the new schedule of fees listed in Attachment A.

The Committee on Agriculture and Horticulture agreed to a joint meeting with the Committee on Buildings and Grounds to view the proposed purchase of land for the College of Agriculture.

The meeting adjourned at 3:30 p.m.

John Gillespie
Secretary, Board of Trustees

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PROPOSED REVISION OF THE SCHEDULE OF FEES FOR SEED TESTING
University of Massachusetts Seed Laboratory
Amherst, Mass. *

	Purity only	Germination only	Purity and Germination	Noxious seed Check only
Field Crops:				
Alfalfa	1.50	.75	1.75	1.00
Beans-Field	1.00	.75	1.25	.50
Bentgrass	2.00	1.50	3.00	1.00
Birdsfoot Trefoil	1.50	.75	1.75	1.00
Ky Bluegrass	2.00	1.50	3.00	1.00
Merion Ky Bluegrass	2.50	1.50	3.50	1.00
Brome Grass	1.50	1.00	2.00	1.00
Buckwheat	1.00	.75	1.25	.50
Cereals	1.00	1.00	1.50	.50
Clovers	1.50	.75	1.75	1.00
Corn	1.00	.75	1.25	.50
Fescues	1.50	1.00	2.00	1.00
Lespedeza	1.50	.75	1.75	1.00
Millets	1.50	.75	1.75	1.00
Orchard Grass	1.50	1.00	2.00	1.00
Peas-Field	1.00	.75	1.25	.50
Rape	1.00	.75	1.25	.50
Redtop-hulled	2.00	1.00	2.50	1.00
Redtop-unhulled	2.50	1.00	3.00	1.00
Reed Canary Grass	1.50	1.00	2.00	1.00
Ryegrass	1.50	1.00	2.00	1.00
Ryegrass(fluorescence only)	1.50	....	....	....
Sorghum	1.00	.75	1.25	.50
Soybean	1.00	.75	1.25	.50
Sudan Grass	1.50	.75	1.75	.50
Tobacco	1.50	1.00	2.00	1.00
Timothy	1.50	1.00	2.00	1.00
Vetches	1.00	.75	1.25	.50
Field or Lawn Mixtures:				
Two components	3.00	2.00	4.50	1.00
Ea. additional comp.	1.00	1.00	1.50	....
Flowers:	1.50	1.00	2.00	.50
Trees & Shrubs:	1.50	1.50	2.50	.50
Vegetables & Herbs:	1.50	.75	1.75	.50

Cleaning Tobacco Seed: $1.00 per pound or fraction of a pound based on original weight.

Kinds of Seed Not Listed: Fees are based on charges for other similar seeds.

Extra Dirty Samples and Other Services: Fees are based on time consumed in making tests.

Free Tests: During the calendar year, the Seed Laboratory will allow one free germination tests of vegetable or tobacco seed to any person residing or doing business in the Commonwealth.

*Prepared November 29, 1960. by Seed Laboratory William L. Wise, In charge

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FACULTY AND PROGRAM OF STUDY

April 25, 1961, Noon, Parker House, Boston, Massachusetts

Chairman Haigis presiding

PRESENT: Trustees Haigis, Furcolo, Kiernan Lederle; also Secretary Gillespie

President Lederle discussed the need for a short-term leave policy for faculty members during the summer vacation. On motion duly made and seconded, it was

Short-term Leave Policy

VOTED: To recommend to the Full Board that they approve the policy for a short-term leave for faculty members during the summer vacation as described in Attachment A.

Upon recommendation of the President and on motion duly made and seconded, it was

Public Health

VOTED: To recommend that the Board of Trustees rescind its action of March 1, 1961 which placed work in Public Health in the School of Nursing, and that the work in Public Health be transferred to the Health Services under the direct administration of Dr. Robert W. Gage, as described in Attachment B.

It was also

Change in Title

Dr. Gage

VOTED: To recommend that Dr. Robert W. Gage's title be "Director of Health Services and Chairman of the Department of Public Health."

Upon recommendation of the faculty, and on motion duly made and seconded, it was

Courses

VOTED: To recommend to the Board of Trustees that they approve changes in course titles, changes in course credits, approval of revised courses, approval of deletion of courses, and other action pertaining to courses as set forth in Attachment C to these minutes.

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Honors Colloquia

Acting Provost Woodside explained that during the present academic year four sophomore colloquia have been conducted. Each has brought together once a week for a two-hour period academically talented students for the purpose of informal discussion on intellectual issues. Each colloquium has been under the direction of two members of the faculty. A number of important books have been read and discussed. The students have been encouraged to raise questions, to think out their own conclusions, and to explain and defend their positions. Faculty participation in the colloquium has been limited essentially to defining the issues and to keeping the discussion germane. Students have received no academic credit for this work.

The Course of Study Committee recommenda to the Board of Trustees that beginning in the fall of 1961 academic credit for work in the Honors Colloquia be given at the rate of one credit per semester. The semesters involved would be the second semester of the freshman year and both semesters of the sophomore and junior years.

Upon recommendation of the Graduate Faculty, it was

Cooperative Ph.D. Program in French

VOTED: To recommend to the Board of Trustees that they approve a cooperative Ph.D. program in French as described in Attachment D.

Upon the recommendation of the Graduate Faculty and on motion duly made and seconded, it was

Ph.D. Program in Sociology and Anthropology

VOTED: To recommend that the Board of Trustees approve a Ph.D. program in the Department of Sociology and Anthropology as described in Attachment E to these minutes.

The meeting adjourned at 2:30 p.m.

John Gillespie

John Gillespie
Secretary, Board of Trustees

Attachment B

University of Massachusetts

MEMORANDUM

From: President John W. Lederle Date: April 6, 1961

To: Trustee Committee on Faculty & Program of Study

You may recall that on February 7, 1961, the Trustee Committee on Faculty and Program of Study voted to recommend to the Board of Trustees that the work in Public Health be transferred to the School of Nursing as of July 1, 1961. This recommendation was approved on March 1 by the full Board of Trustees.

For a number of reasons it now seems best to change this recommendation. I recommend that as of July 1, 1961, the work in Public Health be transferred to the Health Services under the direct administration of Dr. Robert W. Gage.

One of the important reasons for this recommendation is the fact that we have now learned that the University Health Services can be transferred to a Trust Fund operation during the present year. This means, among other things, that the Director of the Health Services will be freer to devote more time to the relationships between Public Health and University Health Services. It is evident that there are many ways in which the two activities can work together for mutual benefit.

The proposed recommendation has been discussed with Dean Mary A. Maher of the School of Nursing, Dr. Robert W. Gage of the University Health Services, Professor Robert C. Perriello and Mr. Karol S. Wiaderbi. (The last two are the members of the Faculty who teach the courses in Public Health). The recommendation has the enthusiastic approval of all four of these people. We have also been informed that the Director of the State Department of Public Health, Commissioner Alfred L. Frechette, would be pleased to have the work in Public Health associated with the University Health Services.

Finally, I wish to recommend that **Dr. Robert W. Gage's title be Director of Health Services and Chairman of the Department of Public Health.**

John W. Lederle
President

A

University of Massachusetts

MEMORANDUM

From: John W. Lederle, President Date: April 14, 1961

To: Trustee Committee on Faculty and Program of Study

On the recommendation of the Academic Deans, I recommend that a new type of short-term leave policy be established whereby members of the faculty might be able to attend brief educational programs. The purpose of such programs is to benefit the University by strengthening its own offerings. Most of the programs involved are held during the summer months when faculty members normally do not have formal University responsibilities. Thus they will not be relieved of regular duties in order to participate. They will, however, be prevented from teaching in a summer session. Partly for this reason, we recommend that the University contribute to the faculty member a modest stipend for the purpose of attending such a program. Our chief reason for recommending the modest stipend is that the programs of the University will be enriched. We further recommend that the faculty member be required to return this stipend if he does not remain on the faculty of the University for at least one year after having attended the session.

John W. Lederle

John W. Lederle
President

C

UNIVERSITY OF MASSACHUSETTS
Undergraduate Courses

COURSES DELETED

Geology 60 Principles of Physical Geography
Physics 58 Photography
Physics 64 Optics

NEW COURSES

Chemical Engineering 61 - Chemical Engineering Analysis

Application of mathematical techniques to chemical engineering problems. Analysis of problems, devising mathematical models, machine computation with digital and analog devices. Prerequisites: Chemical Engineering 56 and Mathematics 32.

3 class hours — Credit 3

Chemical Engineering 76 - Automatic Process Control

A study of the theoretical and practical factors governing automatic control of industrial processes. Prerequisites: Chemical Engineering 56 and 61 and Mathematics 32.

2 class hours
1 3-hour laboratory — Credit 3

Chemistry 85 (II) Theory of Analytical Processes

A detailed consideration of analytical topics having general applicability in chemical investigations. Among the areas included are chemical equilibrium, precipitate formation, chelating agents, multistage separation, and quantitative methods for organic functional groups. Additional topics may be selected from current literature. Pre- or co-requisites: Chemistry 52 and 66.

3 class hours — Credit 3
1 laboratory period, optional — Credit 1

Industrial Engineering 56, Analysis of Data Processing Systems

Principles and applications of data processing and electronic computer systems for use by Industrial Engineers and others as a management tool for control and decision making. Prerequisite, I.E. 51 or Mgt. 61, or approval of instructor.

3 class hours — Credit 3

German 97 (I), 98 (II) Special Problems

Guided reading and research in areas of specialization. For qualified seniors. — Credit 1-3

Economics 88 - Financial Aspects of Economics

The application of modern flow-of-funds analysis to the financial behaviour of the various sectors of the economy. Special emphasis is placed on the financial aspects of business units and the business sector. Prerequisites: Economics 25 and Accounting 25 or consent of instructor.

3 class hours — Credit 3

Wildlife Management 97 (I), 98 (II). Special Problems in Wildlife Management.

Qualified seniors who have completed most of the wildlife courses may arrange for work on a special problem in a selected phase of wildlife management. Total credits for two semesters may not exceed 6.

Credit 2-4

NUMBER, TITLE DESCRIPTION CHANGE

Wildlife Management 61 (I) Principles of Wildlife Management

Fundamental ecology and principles of wildlife management with emphasis on population characteristics and responses.
2 class hours
1 4-hour laboratory period Credit 3

Wildlife Management 62 (II) Techniques of Wildlife Management

Methods of collecting and interpreting data in wildlife management with emphasis on field and laboratory experience in census methods and criteria for determining sex, age and other characteristics of wild birds and mammals.
2 class hours
1 4-hour laboratory period Credit 3

Wildlife Management 63 (I) Management of Wetland Wildlife (1962-63)

Life histories, identification and habitat requirements of waterfowl and marshland furbearing animals; management of wetland habitats.
2 class hours
1 4-hour laboratory period Credit 3

Wildlife Management 64 (II) Management of Upland Wildlife (1961-62)

Life histories, identification, and habitat requirements of upland game birds, game mammals, and furbearers; management of upland habitats.
2 class hours
1 4-hour laboratory period Credit 3

CHANGE IN CREDIT

Chemical Engineering 25 and 26, Fundamentals

Increase from 2 to 3 class hours and from 2 to 3 credits.

Chemical Engineering 55 and 56, Unit Operations I and II

Decrease from 3 class hours and 2 3-hour labs to 3 class hours and 1 3-hour lab, and decrease credits from 5 to 4 per semester.

Chemical Engineering 97, Projects

Decrease from 2 4-hour labs. to 1 3-hour lab, and from 3 credits to 1 credit.

Chemical Engineering 98, Projects

Decrease from 2 4-hour labs. to total of 6 lab. hours per week and decrease credits from 3 to 2.

REPLACEMENTS

Geography 35 Fundamentals of Geography

The physical and cultural elements of geography and the patterns of their distribution. Physiography, climate, soil, resources, population, settlement, agriculture, industry and their relationships.
2 class hours
1 3-hour laboratory Credit 3

GRADUATION REQUIREMENTS, MILITARY AND AIR SCIENCE CREDITS

The successful completion of at least 120 semester hours of academic credit. In addition, for men students, the successful completion of the required 4 credits in basic Military Science or 2 credits for 4 semesters in basic Air Science courses. The satisfactory completion of the basic physical education courses required of all students. Individual colleges, schools, divisions and departments may require more than 120 semester hours of academic credit.

HONORS COLLOQUIA CREDIT

Credit be given for academic work in the Honors Colloquia Program at the rate of 1 credit per semester.

TITLE AND DESCRIPTION CHANGE

E.E. 41 (I), 42 (II) Linear Circuit Analysis I and II

Analysis using differential relationships, free and forced responses, complex frequency, steps and impulses, poles and zeros and network theorems. Prerequisites, Mathematics 6 and Physics 6.
3 class hours
1 3-hour laboratory Credit 4

NUMBER, TITLE, DESCRIPTION AND SEMESTER CHANGE

E.E. 59 to be included in first semester, junior year, and changed to

E.E. 51 (I) Linear Circuit Analysis III

Polyphase circuits, coupled circuits, harmonics, Fourier series, and magnetic circuit. Prerequisites Mathematics 32 and Electrical Engineering 42.
3 class hours
1 3-hour laboratory Credit 4

REVISED COURSES

Mathematics 63 (I) Probability

A postulation study of probability including counting methods, random variables, moments, and the binomial, Poisson and normal distributions. Prerequisite Mathematics 29, previously or concurrently.
3 class hours Credit 3

Mathematics 64 (II) Mathematical Statistics

Estimation of parameters, testing hypotheses use of the chi-squared, t-, F-, and other distributions. Prerequisite Mathematics 63.
3 class hours Credit 3

NEW COURSES

Advanced Engineering Mathematics 75 (I)

Series solution of differential equations, functions of several variables, partial differential equations, numerical analysis and the Laplace transform. Not available for majors in Mathematics. Prerequisite: Mathematics 92 or 32.

3 class hours Credit 3

Advanced Engineering Mathematics 76 (II)

Vectors and vector spaces, vector field theory, complex analysis. Not available for majors in Mathematics. Prerequisite: Mathematics 92 or 32.

3 class hours Credit 3

DELETIONS

Wildlife Management 70 Principles of Wildlife Management
71 Waterfowl Biology and Management
72 Forest-Animal Relationships
73 Wildlife Management
74 Techniques in Wildlife Management
75 Furbearer Biology and Management
84 Seminar
85 Wildlife Literature

(Attachment 1)

UNIVERSITY OF MASSACHUSETTS

M E M O R A N D U M

From . . . .Graduate Office. . . . . .Date . . . April 13, 1961. . . . . .

To . . . . .Mr. John Gillespie . . . . . .

The Graduate Council has voted approval of the following, subject to approval by the University of Massachusetts Board of Trustees:

CHEMICAL ENGINEERING 211, ADVANCED CHEMICAL ENGINEERING.-A course which introduces the student to advanced work in chemical engineering which applies the transport of momentum, of energy, and of material. It supplies the background for study of fluid flow, heat transfer and mass transfer. Topics covered include: viscosity, thermal conductivity and diffusivity, momentum and energy balances, friction, turbulence, fluid friction, motion of suspended solids in fluids, and non-Newtonian fluids. Credit, 3.
Prerequisite, Chemical Engineering 56. Mr. Kim and Mr. Lindsey.

CHEMISTRY 207, CHEMICAL SPECTROSCOPY.-Technique and Applications. Contains an introduction to the elementary theory, experimental techniques and interpretation of data obtained in applications of infrared, Raman, visible, ultraviolet, nuclear quadrupole and nuclear magnetic resonance spectroscopy to the solution of chemical problems.
Three hours. Credit, 3.
Prerequisite, Chemistry 66 or equivalent. Mr. Stengle and Mr. Stidham

CHEMISTRY 216, TOPICS IN INORGANIC CHEMISTRY.- Topics such as coordination chemistry, non-aqueous solvents, less familiar oxidation state, acid-base theories, reaction mechanisms, etc. will be offered.
Two hours. Credit, 2.
Prerequisite, Chemistry 186 or equivalent. Maximum credit, 6.
The Staff.

HISTORY 207, BRITAIN IN THE NINETEENTH CENTURY.-Central themes and topics. Emphasis on the history of thought in its relation to political, economics and social developments. Credit, 3.
Three class hours. Mr. Gordon.
Prerequisite, permission of instructor.

HISTORY 208, RECENT EUROPEAN HISTORY.-Basic developments in diplomatic, political, social and economic history since 1890 with particular emphasis upon organic growth and change. Credit, 3.
Prerequisite, permission of instructor. Mr. Gordon.

HISTORY 259, EUROPEAN DIPLOMACY BETWEEN THE WARS. Training in historical research and an introduction into the relationships among European Nations in a critical period. Credit, 3.
Prerequisite, permission of instructor. Mr. Caldwell.

HISTORY 260, MODERN ENGLISH HISTORY.-Research on selected topics. 1890-1940.
Prerequisite, permission of instructor. Credit, 3.
Mr. Caldwell.

GEOLOGY 218, GROUND-WATER GEOLOGY.-A comprehensive study of basic principles in geohydrology, including theoretical and practical ground-water hydrology and its relation to geomorphology, glacial geology, sedimentology, and engineering geology.
Prerequisites, Chemistry 1 and 2, 15 hours of geology; 78 and 94 recommended. Credit, 3. Mr. Motts.

ROMANCE LANGUAGES 235, HISTORY OF THE FRENCH LANGUAGE.-A study of the development of the French Language from its earliest beginnings to the present.
Prerequisite, permission of instructor. Credit, 3. The Staff.

ROMANCE LANGUAGES 254, FRENCH PHILOLOGY.-A continuation of course 201 with emphasis on French Philology.
Prerequisite, Romance Languages 201. Credit, 3. The Staff.

ROMANCE LANGUAGES 285, 286, SPECIAL STUDIES IN 19TH CENTURY FRENCH LITERATURE.-
Prerequisite, permission of instructor. Credit, 3 each semester. The Staff.

ROMANCE LANGUAGES 400, THESIS, Ph.D. degree. Credit, 30.

ZOOLOGY 210, ELECTRON MICROSCOPY.-Lectures and laboratory on the electron microscope and specimen preparation.
Prerequisite, permission of instructor. Credit, 3. Mr. Anderson.

ZOOLOGY 275, FINE STRUCTURE AND FUNCTION OF CELLS.-Lectures, discussions, readings, and reports on fine structure of cells and dynamic morphology.
Prerequisites, Zoology 183 and 273 or their equivalents. Credit, 3. Mr. Anderson.

SOCIOLOGY 283, CONTEMPORARY SOCIOLOGICAL THEORY.-A consideration of the literature from 1900 to the present.
Prerequisites, Sociology 281, 282, and permission of instructor. Credit, 3. Mr. Gordon.

SOCIOLOGY 284, CONTEMPORARY SOCIOLOGICAL THEORY.-A consideration of the literature from 1900 to the present.
Prerequisites, Sociology 281, 282 and 283, and permission of instructor. Credit, 3. Mr. Gordon.

SOCIOLOGY 298, ADVANCED RESEARCH METHODS.-A research project designed and carried out by the student under the supervision of a member of the staff. Sociology 297 and 298 must be completed with a grade of "B" or higher before a student is permitted to undertake a dissertation.
Prerequisites, Sociology 297, and permission of instructor. Credit, 3. The Staff.

SOCIOLOGY 400, THESIS, Ph.D. degree. Credit, 30.

UNIVERSITY OF MASSACHUSETTS

M E M O R A N D U M

From . . . Graduate Office . . . . . .Date . . . February 28, 1961 . . . .

To . . . . Mr. John Gillespie. . . . . .

The Graduate Council has voted approval of the following, subject to approval by the University of Massachusetts Board of Trustees:

SOCIOLOGY 212, SOCIAL CHANGE - Analysis of change as a process, especially the factors making for acceptance or rejection of innovations. Planned and unplanned consequences of social movement, technological invention and culture contact. Credit, 3
Prerequisites, Sociology 72 or permission of instructor Mr. King

SOCIOLOGY 215, THE SOCIOLOGY OF RELIGION - The relations of religious ideology and ecclesiastical organization to the total social institutional system. Special attention to the religions of larger civilizations, especially Islam, Buddhism, Medieval Christianity, Gentile Paganism, Protestantism, and Judaism. Credit, 3
Prerequisite, permission of instructor. Mr. Manfredi

SOCIOLOGY 216, CORRECTIONAL THEORY AND PRACTICE - An analysis of contemporary approaches to correction. An evaluation of probation, parole, the socialized court movement, community crime prevention, and related problems. Credit, 3
Prerequisites, Sociology 78, 195. Mr. Yablonsky

SOCIOLOGY 217, JUVENILE DELINQUENCY - Theories of causation and treatment of delinquency. Credit, 3
Prerequisites, Sociology 78 or permission of instructor Mr. Yablonsky

SOCIOLOGY 218, INDUSTRIAL SOCIOLOGY - A study of the role, status, and function of the worker in the industrial community; the impact of technological change on the community; analysis of selected occupational functions. Credit, 3
Prerequisites, Sociology 68 or Economics 79 or permission of instructor. Mr. Korson

SOCIOLOGY 231, SOCIAL GERONTOLOGY - Implications of aging for society and the individual. Position of the aged in non-industrialized and industrialized societies. Changing roles of older people in the American family and the community. Credit, 3
Prerequisites, Sociology 82, 195. Mr. King

SOCIOLOGY 232, SOCIOLOGY OF MEDICINE.-A survey of theory and research concerned with medical care as a social institution. The relation of social factors to illness, and social processes involved in medical education. Credit, 3.
Prerequisites, Sociology 82, 195. Mrs. Goss.

SOCIOLOGY 271, POPULATION OF INDIA AND PAKISTAN.-Trends in population growth and its distribution among various social strata. An assessment of the relative influence of fertility, mortality, migration, social organization, and cultural values on growth patterns.
Prerequisites, Sociology 61, 195. Credit, 3.
Mr. Driver.

Gilbert L. Woodside
Dean, Graduate School

(Attachment 2)

PETITION TO THE GRADUATE COUNCIL FOR PERMISSION
TO OFFER THE COOPERATIVE Ph.D. IN FRENCH

I. Preface. The Departments of French at Amherst, Mount Holyoke and Smith Colleges and the Department of Romance Languages at the University of Massachusetts have met severally and individually and have formally voted to petition the Graduate School Council for permission to offer the cooperative Ph.D. degree. The four department heads have also met and discussed all details of the program and petition at length and subscribed unanimously to this petition.

II. Equipment and facilities. The joint equipment and facilities of the four institutions are comparable to the best for languages found in any institution in the country. Three of the four institutions have large, well-equipped language laboratories and adequate to excellent classroom facilities. The University of Massachusetts equipment is at present equal to the best to be foundanywhere in the United States with some functions unduplicated anywhere.

III. Library resources. Admittedly, the literature facilities in French at the University of Massachusetts are meager. However, a good basic working library is now available and books as yet uncatalogued but located in the library will soon be available and will make an excellent nucleus of materials for graduate study. In the HILC periodical collection there are already over fifty periodicals of value in this field in addition to the thirty periodicals on the regular University of Massachusetts subscription list. The total library facilities in French of the four-colleges are equal to that of any but the very largest universities in this country. Many collections at the other three-colleges are outstanding and it is noteworthy that Amherst and Mt. Holyoke Colleges have the catalogue of the Bibliotheque Nationale, Paris, the largest library in the world. Mt. Holyoke College has the catalogues of the British Museum and the Congressional Library. The reference sources at Smith College are equally rich.

IV. Funds for fellowships and scholarships. The three private institutions have generous funds for fellowships, and it is expected that the Department of Romance Languages will also be allotted its share of teaching fellowships and departmental assistantships. The position of teaching associate will also be used as fellowship aid. NDEA graduate fellowships are also a possibility.

V. The Curriculum.

A. All courses at the four institutions which give both graduate and undergraduate credit, i.e., all advanced major courses. There are over forty of these. The University of Massachusetts general requirements and the proposed special requirement for the Ph.D. in French will, of course, prevent any heavy concentration of elections in this area.

B. These graduate courses now offered at:

1. Mount Holyoke: French 401-402: Medieval French Language and Literature. 6 hours. Miss Dean.

French 405: The Renaissance; an intensive study of the works of the two outstanding authors of the Renaissance: Rabelais, Ronsard or Montaigne. 3 hours. M. Saintonge.

French 407, 408: Classicism: an intensive study of the work of a representative author of the seventeenth century. 6 hours. M. Saintonge.

French 410: Voltaire and Rousseau. 3 hours. Mrs. Stevens.

French 460: An intensive study of the work of an outstanding author. 3 or 6 hours.

2. Smith College: 45a History of Modern French Thought. The Renaissance to the present.

(47a Studies in Eighteenth-Century Literature. Alternates with 48a)

48a Studies in Nineteenth-Century Literature with Emphasis on Victor Hugo. Alternates with 47a.

50, 50a, 50b Research and Thesis. 3 or 6 hours.

51, 51a, 51b Advanced studies arranged in consultation with the Department. One hour or more.

52 Old French. Linguistics and literature. Miss Leland.

53 Problems of Modern Syntax. Miss Cattanes.

56a Development of Literary Criticism in France. Mr. Guillotan
56b Literary Relations between England and France in the 18th Century. Mr. Guilloton.

510b French Poetry from 1885 to the Present.

3. University of Massachusetts
Special requirements for the Ph.D. in French. In addition to all the regular Ph.D. requirements at the University of Massachusetts, the cooperative Ph.D. in French would like to include the following requirements and general directives:

A. The Guidance Committee will, in consultation with the candidate, plan the entire program of work for the degree.

B. In addition to the general requirements at the University of Massachusetts, the following special requirements must be met:

1. Required courses:
   a. One semester of Old French readings
   b. One semester of French Philology
   c. One semester of Linguistics
   d. 400, Ph.D. thesis.

2. A minor consisting of a minimum of 15 credits in an allied field, subject to the approval of the Guidance Committee.

3. A reading knowledge of a second Romance Language, and of German (or other major language outside the Romance group)

4. Candidates planning on writing a thesis on the Medieval or the Renaissance field must have a reading knowledge of Latin.

5. An oral examination, conducted in French, as part of the preliminary comprehensive examination.

6. A comprehensive knowledge of the whole body of French literature.

7. A thorough knowledge of the candidate's special field.

8. Evidence of a knowledge of the history and culture of France, determined by the comprehensive examination and performance in courses.

9. Evidence of the ability to teach French.

D. Strongly recommended:

1. One semester of Advanced Phonetics.

2. A period of residence in France.

COURSES OPEN TO GRADUATE STUDENTS ONLY
(For either major or minor credit)

200. Problem Course. Credit, 3-6. The Staff.

201. Introduction to Philology.- Credit, 3. The Staff.

202. Old French or Old Spanish Readings. Credit, 3. The Staff

203, 204. Area Studies in French or Hispanic Civilization. Credit, 3 each semester. The Staff.

205, 206. Advanced Studies in French or Hispanic Literature. Credit, 3 each semester. The Staff.

215, 216. Seminar in French or Spanish. Credit, 2-3 each semester. The Staff.

235. History of the French Language. Credit, 3. The Staff.

254. French Philology. Credit, 3. The Staff.

285, 286. Special studies in 19th Century French Literature. Credit, 3 each semester. The Staff.

300. Thesis, Master's Degree. Maximum credit, 10.

400. Thesis, Ph.D. degree. Credit, 30.

COURSES OPEN TO BOTH GRADUATE AND UNDERGRADUATE STUDENTS
(For either major or minor credit)

151. French Literature of the Eighteenth Century. Credit, 3. The Staff.

153, 154. French Literature of the Twentieth Century. Credit, 3 each semester. Miss Clarke.

155, 156. French Literature of the Seventeenth Century. Credit, 3 each semester. Mr. Johnson.

157, 158. French Literature of the Nineteenth Century. Credit, 3 each semester. Mr. Goding.

175. Cours De Style. Credit, 2. Mr. Smith

177. The French Renaissance I. Credit, 2. The Staff.

178. Advanced French Studies II. Credit, 2. The Staff.

179. French Civilization. Credit, 3. Mr. Goding.

180. Advanced Language Study. Credit, 3. Mr. Goding.

Linguistics

197. Linguistics. Credit, 3. Mr. Buckert.

VII. The Faculty. The combined strength of the staffs in French in the four colleges is outstanding. The interest in research, publication and teaching advanced courses is high. Partial evidence is herewith submitted in the following list of some of the persons who would teach the graduate work. Formal nominations for membership on the Graduate Faculty of the University of Massachusetts accompany this petition. (In the case of persons who received their education in France it should be noted that "Licence" roughly equates to our A.M. and that "agregation" is generally esteemed a good deal more demanding than our Ph.D.)

CASSIRER, Thomas (Smith College)
B.A. (Honors) McGill University
Ph.D. Yale University

CLARKE, Katherine A. (U. of Mass.)
B.A. Goucher College
M.A. Middlebury College
Docteur de l'Universitg, Grenoble
(Member of Graduate Faculty, U of M.)

COLLIGNON, Jean Henri (Smith College)
Licence d'Anglais, U of Toulouse
Agregation d'Anglais U of Paris

DEAN, Ruth J. (Mt. Holyoke College)
B.A. Wellesley College
B.A. (Honors) Oxford University
M.A. Oxford University
D. Phil. Oxford University

DOUBROVSKY, Julien S. (Smith College)
Fellowship at the Ecole Normale Superieure, Paris
Licence en Philosophie Sorbonne
Licence en Anglais Sorbonne.
Diplome d'Etudes Superieures en Anglais Sorbonne
Agregation de l'Universite en Anglais Sorbonne

FRENCH, Reginald F. (Amherst College)
B.A. Dartmouth College
Ph.D. Harvard University

GIORDANETTI, Elmo (Amherst College)
B.A. Bowdoin College
Ph.D. Princeton University

GODING, Stowell C. (U. of Mass.)
B.A. Dartmouth College
M.A. Harvard University
Ph.D. University of Wisconsin
Member, Graduate Faculty, U. of M.

GUILLOTON, Vincent (Smith College)
Baccalaureat-es-Lettres
(Universite de Rennes)
Licence-es-Lettres (Sorbonne)
Agrege de l'Universite
Ancien Eleve de l'Ecole Normale Superieure

JOHNSON, Ernest A., Jr. (Amherst College)
B.A. Amherst College
Ph.D. Harvard University

JOHNSON, Robert B. (University of Mass.)
A.B. Ohio University
M.A. University of Wisconsin
Ph.D. University of Wisconsin

LELAND, Marine (Smith College)
Ph.D., Litt.D. (Hon.)

MEAD, William C. (Smith College)
B.A. University of Maryland
Universite de Paris (Lettres)
Ph.D. Yale University

RAYMOND, Agnes G. (University of Mass.)
B.A. Wilson College
M.A. Syracuse University
D.M.L. Middlebury French School

SAINTONGE, Paul F. (Mt. Holyoke College)
A.B. Harvard University
A.M. Harvard University
Ph.D. Harvard University

SMITH, Harold L., Jr. (U. Of Mass.)
Baccalaureat, Lycee Pasteur
B.A. Swarthmore College
M.A. Columbia University
Ph.D. University of Wisconsin

STEVENS, Alice C. (Mt. Holyoke College)
A.B. (Highest Honors) Mt. Holyoke
M.A. Radcliffe College
Ph.D. Radcliffe College

TURGEON, Frederick K. (Amherst College)
A.B. Bowdoin College
A.M. Harvard University
Ph.D. Harvard University
M.A. (Hon.) Amherst College

(Attachment 3)

From: J. Henry Korson Date: March 17, 1961

To: Dean Woodside c.c. Graduate Council

Re: Petition for permission to institute a Ph.D. program in the Department of Sociology and Anthropology

For a number of years, inquiries and requests for graduate training at the Ph.D. level have outnumbered requests for M.A. training by two to one. Within the last two years, both the number of applications and the ratio have increased markedly. It is obvious that a need exists that is not otherwise being met. Such inquiries and requests come from not only the state of Massachusetts, but from other parts of the country, and even abroad. With the addition of Dr. Milton Gordon to the department in September 1961, the staff will number ten--all trained at major institutions. It is felt that we are now in a strong position to begin such a program. At the present time, 10 graduate students are enrolled in the department, and more are expected in the coming year. About a dozen applications have been processed for admission to date, and at least another dozen will be processed in the next month. All those approved for admission have a 3.0 average or higher in Sociology and Anthropology courses at the undergraduate level.

The department feels the resources are present, both in manpower and facilities, to initiate a program leading to the Doctor of Philosophy degree in Sociology. Should this request be approved by the Graduate School Council and the Board of Trustees, it is planned to accept for candidacy for the Ph.D. degree no earlier than September 1962, those students who hold, or have completed all the requirements for the M.A. degree in Sociology at this university or an institution of equivalent standing.

Those courses, such as Sociological Theory will continue to be offered annually, while most others will be offered in alternate years, or as needed. In this manner it is felt that manpower can be conserved and most efficiently used.

Any Sociology Department which attempts to offer graduate work at any level must begin with solid offerings in Sociological Theory and Research Methods. For several years the department has offered a full year of Sociological Theory, (Soc. 281 & 282, 6 credits), taught by Dr. John Manfredi, whose special forte has been the historical and philosophical approaches to the study of organized societies. It is planned to introduce an additional year of Advanced Sociological Theory (Soc. 283 & 284, 6 credits) which will be concerned with the more recent developments in the field in the last two generations. It is planned that a new man, Dr. Milton Gordon, will teach this course. In addition, 12 credits in Research Methods, and six credits of Statistics will be required of all Ph. D. candidates. (Three credits in Statistics taken at the undergraduate level may, with the permission of the department, be counted toward this requirement.) The Research Methods will be taught by a member of the department (Dr. Keith Lovald), while a student will have the opportunity to select from among the Statistics courses already taught on this campus in the departments of Agricultural Economics, Mathematics and/or Psychology.

Dean Woodside

Four-College Cooperation: A year ago a meeting was held with sociologists from the other colleges in the Valley, at which time they were invited to participate in the development of a cooperative four-college Ph.D. program. Unfortunately, all of the sociologists at the other colleges are heavily engaged in undergraduate teaching, and offer little or no graduate work in their own institutions. (For example, none is a member of the graduate faculty.) It is possible that in the future some graduate work may be offered in the other institutions, and at that time it will be possible to offer a cooperative program. Mr. Allen Kassof, of Smith College, was the only member of that department to offer to participate in the program, and a course he proposed (Soc. 233 Social Institutions of the U.S.S.R.) was approved by the Graduate Council. Unfortunately, Mr. Kassof has since accepted a position at Princeton University, and will leave the Valley in the fall. It is with regret that we must request that Soc. 233, Social Institutions of the U.S.S.R. be dropped. Mrs. Mary E. Weber Goss, a research associate at the Cornell University College of Medicine in New York City, but who resides in Amherst, was also invited to participate. (Mrs. Goss's work is such that she spends only a part of each month in New York City, and most of it in Amherst.) As will be seen by the attached statement, Mrs. Goss is well prepared to participate in our graduate program.

Research Resources: Although the resources of Goodell Library are in some respects limited, the combined resources of the four college libraries and the Hampshire Interlibrary Center, make it possible to carry on research in certain areas. The newly-acquired Human Relations Area File, housed in Goodell Library, will also provide a valuable resource. It should also be pointed out that many field studies can be conducted at such institutions as the Northampton State Hospital, the Berkshire Farm for Boys, in Canaan, New York; Women's Reformatory, Framingham; Men's Reformatory, Concord; The Bureau of Classification, Department of Correction; Youth Service Board, Department of Education; The United Prison Association, Boston; under the direction of members of the department. Cooperation from the staffs of these institutions has already been assured.

Special Department Requirements: In addition to the standard requirements of the graduate school for the Ph.D. degree, this department will require that the candidate complete 12 credits in Sociological Theory, 6 semester hours in Statistics, 12 semester hours in Research Methods, 6 semester hours in Anthropology courses at the 200 level, and a series of written examinations in:

a) Sociological Theory

b) Research Methodology

c) Two other substantive areas

d) Minor areas, where required

Language examinations: In conjunction with the normal requirements of the Graduate School, the department expects each entering student to pass one language examination before the end of the first full year of study, and the second language examination before registering for Soc. 283 and 284. One language not native to the student may be substituted for either French or German, provided it is demonstrated that the substitute language will be useful and necessary in completing the research for the doctoral dissertation.

Dean Woodside

Graduate Record Examination: Although this examination is not necessarily used for the purposes of admission, graduate students are required to take this examination before admission, or as soon after the opening of the school year as possible.

Time Limit: In order to encourage students to complete all the requirements for the Ph.D. in the shortest possible time, the department plans to institute the following time limit:

a) A student who undertakes graduate work with no advanced standing must complete all requirements for the Ph.D. within seven years from the date of his first enrollment.

b) A student who enters with the M.A. degree must complete all requirements for the Ph.D. within five years from the date of his enrollment.

c) A student may petition the department in writing for a waiver of this rule.

Manpower: As stated above, the department will, as of September 1, 1961 have the necessary manpower to support this program. In an effort to conserve manpower, some courses will be offered annually, and others in alternate years, or as needed.

The following is a list of courses which we would plan to offer annually:

Soc. 200 - Research project
" 214 - Criminology
" 217 - Juvenile Delinquency
" 281 - Sociological Theory
" 282 - " "
" 283 - Advanced Sociological Theory
Soc. 284 - Advanced Sociological Theory
" 298 - Advanced Research Methods

Anth. 136 - Individual & Society
137 - Anthropological Theory

The following courses will not be offered more often than in alternate years or as the occasion warrants:

Soc. 212 - Social Change
" 215 - Sociology of Religion
" 216 - Correctional Theory
" 218 - Industrial Sociology
" 229 - Small Groups
Soc. 231 - Social Gerontology
" 232 - Sociology of Medicine
" 262 - Demography
" 271 - Population of India
" 298 - Interneship

Sincerely yours,

J. Henry Korson

SOCIOLOGY AND ANTHROPOLOGY

SOCIOLOGY

COURSES OPEN TO GRADUATE STUDENTS ONLY
(For either major or minor credit)

200. SPECIAL PROBLEM. Credit 3-6. The Staff.

212. SOCIAL CHANGE. Credit, 3. Mr. King.

214. CRIMINOLOGY. Credit, 3. Mr. Driver.

215. THE SOCIOLOGY OF RELIGION. Credit, 3. Mr. Manfredi.

216. CORRECTIONAL THEORY AND PRACTICE. Credit, 3. Mr. Yablonsky.

217. JUVENILE DELINQUENCY. Credit, 3. Mr. Yablonsky.

218. INDUSTRIAL SOCIOLOGY. Credit, 3. Mr. Korson.

229. SOCIOLOGY OF SMALL GROUPS. Credit, 3. Mr. Yablonsky.

231. SOCIAL GERONTOLOGY. Credit, 3. Mr. King.

232. SOCIOLOGY OF MEDICINE. Credit, 3. Mrs. Goss.

259. SOCIAL STRATIFICATION. Credit, 3. Mr. Lopreato.

262. DEMOGRAPHY. Credit, 3. Mr. Wilkinson.

271. POPULATION OF INDIA AND PAKISTAN. Credit, 3. Mr. Driver.

281. HISTORY OF SOCIOLOGY THEORY. Credit, 3. Mr. Manfredi.

282. HISTORY OF SOCIOLOGICAL THEORY. Credit, 3. Mr. Manfredi.

283. CONTEMPORARY SOCIOLOGICAL THEORY. Credit, 3. Mr. Gordon.

284. CONTEMPORARY SOCIOLOGICAL THEORY. Credit, 3. Mr. Gordon.

298. ADVANCED RESEARCH METHODS. Credit, 3. The Staff.

299. INTERNSHIP. Credit, 3. The Staff.

300. THESIS, Master's Degree. Credit, 10.

400. THESIS, Ph.D. Degree. Credit, 30

COURSES OPEN TO BOTH GRADUATE AND UNDERGRADUATE STUDENTS
(For either major or minor credit)

151. URBAN SOCIOLOGY. Credit, 3. Mr. Lovald.

152. RURAL SOCIOLOGY. Credit, 3. Mr. Lovald.

156. RACE RELATIONS. Credit, 3. Mr. Korson

157. THE FAMILY. Credit, 3. Mr. King.

161. POPULATION PROBLEMS. Credit, 3.

170. SOCIAL STRUCTURE OF INDIA. Credit, 3. Mr. Driver.

175. SOCIAL PROBLEMS. Credit, 3. Mr. Driver.

192. INTRODUCTION TO SOCIAL WELFARE. Credit, 3. Mr. Yablonsky.

195, 196, SEMINAR. Credit, 3. Mr. Lovald.

ANTHROPOLOGY

COURSES OPEN TO GRADUATE STUDENTS ONLY
(For either major or minor credit)

136. INDIVIDUAL AND SOCIETY. Credit, 3. Mr. Lopreato.

137. THEORY IN SOCIAL ANTHROPOLOGY. Credit, 3. Mr. Conant.

COURSES OPEN TO BOTH GRADUATE AND UNDERGRADUATE STUDENTS
(For either major or minor credit)

163. SOCIAL ANTHROPOLOGY. Credit, 3. Mr. Wilkinson and Mr. Conant.

164. PROBLEMS IN ANTHROPOLOGY. Credit, 3. Mr. Conant.

165. ETHNOGRAPHIC SURVEY OF NON-LITERATE PEOPLES. Credit, 3. Mr. Conant.

167. ETHNOLOGY OF AFRICA. Credit, 3. Mr. Conant.

Interdepartmental Courses

Social Science 160. AFRICA, SOUTH OF THE SAHARA. Credit 3. Miss Carter.

Social Science 169. INDIA AND SOUTHEAST ASIA. Credit, 3. Mr. Driver.

J. Henry Korson, Ph.D. Yale University

Teaching Experience: Instructor, New York University, 1941-42; Bowdoin College, 1942-44, Assistant Professor, University of Massachusetts 1944-48; Professor, 1948 -; Head of Department, 1950 -,

Visiting Professor, Mt. Holyoke College, 1950-51; Spring, 1961; Kwansei Gakuin University, Nishinomyia, Japan, 1958.

Memberships: Fellow, American Sociological Association
Fellow, American Association for the Advancement of Science
Eastern Sociological Society
American Academy of Political and Social Science
Association for Asian Studies

Grants: Asia Foundation Grant, 1957-58; University of Massachusetts Research Council Grant 1958-1959.

Articles:

1. "Looking For Work," Chapter IX in E. Wight Bakke, The Unemployed Worker, Yale University Press, New Haven, 1940.

2. "Unemployment Modifies the Workers' Techniques," Chapter XI in E. Wight Bakke, Citizens Without Work, Yale University Press, New Haven, 1940.

3. "The Social Sciences," The Williston Bulletin, Spring 1959.

4. "Decision Making Among Japanese University Seniors," (In Process)

5. "Social Mobility Among Japanese Alumni," (In Process)

Book Reviews

1. Talcott Parsons, Essays in Sociological Theory, Pure and Applied, Free Press, Glencoe, Illinois, 1949, in Amherst Alumni News, Vol. II, July, 1949, no. 1, p. 21

2. The Scanlon Plan, A Frontier in Labor-Management Cooperation, Ed. by Frederick G. Lesiuer, A Publication of the industrial Relations Section, Massachusetts Institute of Technology. New York, John Wiley & Sons, New York, 1958. In The American Sociological Review, Vol. 24, no. 4.

Other: Abstracter: Sociological Abstracts, 1953-57.

C. Wendell King, Ph. D., Yale University

Teaching Experience: Instructor, Yale University 1943-46; Assistant Professor to Associate Professor Rollins College, 1946-52; Assistant Professor, University of Massachusetts, 1952-54; Associate Professor 1954-56; Professor 1956-

Visiting Lecturer: Smith College, Fall, 1952-53.

Memberships: Fellow, American Sociological Association, Eastern Sociological Association, Society for Applied Anthropology.

Books:

Social Movements in the United States: Random House, 1956.

Articles:

1. "Social Cleavage in a New England Community," Social Forces, Vol. 24, No. 3, 1945.

2. "Nurse-Worker Communication: Some Sociological Considerations," American Association of Industrial Nurses Journal, Vol. 7, No. 8, 1959.

Book Reviews:

1. "The Prohibition Movement in California, 1848-1933" by Gilman M. Ostrander, American Sociological Review, Vo. 23, No. 4, 1958..

2. "Building a Successful Marriage by Judson and Mary Landis," American Sociological Review, Vol. 24, No. 4, 1959.

Awards: Recipient of National Institutes of Health Fellowship to the Inter-University Council's Institute for Social Gerontology, summer of 1958.

Grants: Recipient of University of Massachusetts Research Council Grant for a study of the "The Changing Roles of the Aged," 1958.

Recipient of a research grant from the Society for the Investigation of Human Ecology to undertake field work for a study of Social Change in Jamaica, West Indies. This work was done while on sabbatical leave during the academic year 1959-60.
Recipient of University of Massachusetts Research Council Grant to continue analysis of the Jamaican materials with a view to publication of a series of articles, Jan. 1961.

Milton M. Gordon- (will join the department as a Professor of Sociology in September, 1961)

Present Status (1960-61): Fellow of the John Simon Guggenheim Memorial Foundation.

College Honors: Phi Beta Kappa; prizes in public speaking; Class of '75 Prize in American History; degree awarded magna cum laude, with "Highest Honors in Economics and Sociology;" awarded Charles Carroll Everett Scholarship by Bowdoin for post-college work.

Graduate Degree: M.A. Columbia University, 1940; Ph.D. Columbia University, 1950.

Prizes: 1948 - awarded first prize of $2500 for manuscript, "Democracy and Group Relations;" in national contest sponsored by the Institute for Religious and Social Studies.

Employment: Instructor in Sociology, University of Pennsylvania, 1946-50; Assistant Professor of Sociology, Drew University, 1950-53; Assistant Professor of Sociology, Haverford College, 1953-1957 (simultaneously, Visiting Lecturer in Sociology and Anthropology, Bryn Mawr College, 1956-57); member of staff, Russell Sage Foundation, carrying out commissioned research and writing, 1958-59; Visiting Associate Professor of Sociology, Wellesley College, 1957-58 (simultaneously, Visiting Associate Professor of Sociology, Brown University, 2nd semester, 1957-58, and 1959-60).

Papers read at Professional Meeting: Eastern Sociological Society, 1949, 1951, 1952, 1954; American Sociological Society, 1955.

Memberships- Fellow, American Sociological Association; Eastern Sociological Society.

Books:

Social Class in American Sociology (Durham, N.C., Duke University Press, 1958).

Assimilation of Ethnic Groups in The United States, Russell Sage Foundation, (forthcoming)

The Girard College Case, (forthcoming)

Contributions to Books:

"Social Structure and Goals in Group Relations," In Morroe Berger, Theodore Abel, and Charles H. Page (eds.), Freedom and Control in Modern Society (New York: D. Van Nostrand Co., 1954), pp. 141-57.

"The Class Personality," in Samuel Koenig, Rex D. Hopper, and Feliks Gross (eds.)., Sociology, A Book of Readings (New York: Prentice-Hall, Inc., 1953). (Reprint)

"The Price of Prejudice," in E. B. Lee and A. McC. Lee, Social Problems in America (New York: Henry Holt and Co., 1955). (Reprint)

"Assimilation," in Theodore I. Lenn (ed.), Workbook and Readings in Sociology (New York: Appleton, Century, Crofts, 1956), pp. 306-07. (Reprint)

Articles:

1. "Qualification of the Marginal Man Theory," American Sociological Review, Vol. VI, No. 1 (Feb. 1941), 52-58.

2. "Propaganda and the Polls," The Progressive, Vol. 9, No. 33 (Aug. 13, 1945), pp.4, 10.

3. "Sociological Law and the Deviant Case," Sociometry, Vol. X, No. 3 (Aug. 1947), 250-58.

4. "The New Liberalism of the Church," Phylon, Vol. 8, No. 3 (Third quarter, 1947), 239-42.

5. "The Concept of the Sub-Culture and Its Application," Social Forces, Vol. 26 No. 1 (Oct. 1947), 40-42.

6. "Kitty Foyle and the Concept of Class as Culture," American Journal of Sociology, Vol. 53, No. 3 (Nov. 1947), 210-17.

7. "Social Class in American Sociology," American Journal of Sociology, Vol. 55, No. 3 (Nov. 1949), 262-68.

8. A System of Social Class Analysis," Drew University Studies, No. 2 (Aug. 1951), 1-19.

9. "The Logic of Socio-Economic Status Scales," Sociometry, Vol. XV, No. 3-4 (Aug. Nov. 1952), 342-53.

10. "Segregation - Two-Edged Sword" (with John P. Roche), The New York Times Magazine, April 25, 1954, pp. 10, 62-64.

11. "Social Class and American Intellectuals," American Association of University Professors Bulletin, Vol. 40, No. 4 (Winter 1954-55), 517-28.

12. "Can Morality Be Legislated?" (with John P. Roche), The New York Times Magazine, May 22, 1955, pp. 10, 42-49.

13. "The Girard College Case: Desegregation and a Municipal Trust," The Annals of the American Academy of Political and Social Science, Vol. 304 (March 1956) 53-61.

14. The Girard College Case: Resolution and Social Significance," Social Problems Vol. 7, No. 1 (Summer, 1959), 15-27.

Thomas O. Wilkinson, Ph.D. Columbia University

Teaching Experience: Instructor, University of Massachusetts 1953-57, Assistant Professor 1957-59; Associate Professor, 1959-present.

Visiting Lecturer: Mount Holyoke College, Fall, 1954; Spring 1956; Spring, 1961.

Monographs:

Korean Urbanization, Columbia University, Bureau of Applied Social Research (1952).

Demographic Indices of the World's Urban Population, Columbia University, Bureau of Applied Social Research (1953), with Rogoff, et al.

The World's Metropolitan Areas, University of California Press (1959), with Davis, et al.

Articles:

1. "Prosperity and Political Victory," Public Opinion Quarterly, Vol. 14, #2 (Summer, 1950) with Hornell Hart.

2. "The Pattern of Korean Urbanization," Rural Sociology, Vol. 19, #1 (March,1954).

3. "Urban Structure and Industrialization," American Sociological Review, Vol. 25, #3 (June, 1960).

4. "Agriculturalism in the City of Tokyo," Rural Sociology (March, 1961.)

Reviews:

1. Oeser & Hammond (eds.), Social Structure & Personality in a City, in the Annals, Vol. 300 (July, 1955).
2. United Nations, The Future Growth of World Population, American Sociological Review (December, 1959).
3. United Nations, Recent Trends in Fertility in Industrialized Countries, American Sociological Review (December, 1959).
4. Malthus, T., Huxley, J., and Osborn, F., On Population: Three Essays, N.Y. American Library, 1960. American Sociological Review, Vol. 26, #1, Feb., 1961, p. 171.
5. Weinberg, M., Issues in Social Science, N. Y., Prentice-Hall, 1959. American Sociological Review, Vol. 26, #1, Feb. 1961, p. 163.
6. Halbwachs, Population and Society, American Sociological Review, (forthcoming)
7. Schuler, et al.,Readings in Sociology, " " " "
8. Young & Mack, Principles of Sociology, " " " "
9. Taeuber, The Population of Japan, in American Journal of Sociology (forthcoming)

In Progress: Monograph: Urbanization in Japan

Articles: "A Functional Classification of Japanese Cities, 1955"
"Industrialization and Family Institutions in Japan"

Grants: Research Fellow, Institute for Urban Research, University of California Berkeley, 1957-58, Population Council grant, 1958-59, University of Massachusetts Research Council grant, 1960-61.

Other: Editorial Staff, American Sociological Review, 1958-60.

Lewis Yablonsky, Ph.D. New York University

Teaching Experience: Lecturer, College of the City of New York 1952-58; Columbia University 1956-58: Assistant Professor, University of Massachusets 1958-59; Associate Professor 1959-

Visiting Professor: Smith College, Spring, 1960; Harvard University fall 1960-61.

Book:

The Violent Gang: An Analysis of Delinquent Gangs and Gang Warfare, Accepted for publication by MacMillan Co.

Publications:

1. "A Sociometric Investigation into the Development of an Experimental Model for Small Group Analysis," Sociometry (November 1952).

2. "An Operational Theory of Roles," Sociometry (November 1953).

3. "Future-Projection Technique," Group Psychotherapy (December 1954).

4. "Preparing Parolees for Essential Social Roles," Group Psychotherapy (April 1955).

5. With J. L. Moreno, "Progress in Psychodrama," in Progress in Clinical Psychology (edited by Brower and Abt), New York: Grune-Stratton, 1956.

6. "The Sociometry of the Dyad," in Sociometry and the Science of Man (edited by J. L. Moreno), New York: Beacon House, Inc., 1956.

7. With Clarence Sherwood, Crime Prevention on Morningside Heights, New York: Morningside Heights, Inc., 1956.

8. With James Enneis, "Psychodrama Theory and Practice," in Progress in Psychotherapy (edited by J. L. Moreno), New York: Grune-Stratton, 1956.

9. With Clarence Sherwood, A Parent-Counselling Project, New York: Morningside Heights, Inc., 1956.

10. "Toward a Code of Ethics for Group Psychotherapists," Group Psychotherapy, (February 1958)

11. "Applications of Group Psychotherapy to the Crime Problem," Proceedings, International Congress of Psychotherapy, University of Barcelona, Spain, 1958.

12. "An Appraisal of Approaches to the Prevention and Control of Juvenile Delinquency in New York State with some Conclusions and Recommendations for Needed Action." Rockefeller Bros. Organization, New York, 1958 (Mimeographed report).

13. "Group Psychotherapy and Psychodrama for Drug Addicts," National Probation and Parole Association Journal (January 1959).

Lewis Yablonsky

Publications: Continued

14. "An Open Letter to Officers and Members of the American Society of Group Psychotherapy" (Presidential Statement), Group Psychotherapy, June, 1959.

15. "The Delinquent Gang as a Near-Group" Social Problems. Fall, 1959.

16. "Correction and the Doing-Time Society," Federal Probation, March 1960.

17. "The Sociopathology of the Violent Gang and Its Treatment," chapter in volume Progress in Psychotherapy (edited by J. L. Moreno and J. Masserman) New York: Grune-Stratton, 1960.

18. "The Violent Gang," Commentary, August 1960.

Book Reviews:

1. Vold, "Theoretical Criminology" in Group Psychotherapy

2. Moreno and Masserman, "Psychotherapy," Vol. III, Group Psychotherapy

3. Nice, "Crime & Insanity" in Vol. III Group Psychotherapy

4. Bonner, "Group Dynamics" in Vol. III, Group Psychotherapy

5. McCord & McCord, "Origins of Crime" in American Sociological Review, Feb.1960

6. Barnes and Teeters, "New Horizons in Criminology" in American Sociological Review (December, 1959)

7. Knowles, "Introduction to Group Dynamics" in American Sociological Review Oct., 1960.

8. Fenton, "The Prisoner's Family" in American Sociological Review, Oct. 1960.

9. Gallagher and Harris, "Emotional Problems of Adolescents" of U. of Mass. Alumnus, Fall, 1960.

10. The United Nations, The Selection of Offenders for Probation, N.Y. United Nations, 1959, International Documents Service, Columbia University Press. American Sociological Review, Vol. 26, #2, April, 1961, pp. 322-3.

11. Savitz, Leonard D., Delinquency and Migration, Commission on Human Relations, City of Philadelphia, 1960. American Sociological Review, Vol. 26, #2, April, 1961, p. 322.

Publications Positions:

Contributing Editor, Sociometry, 1952-55

Associate Editor, Book Review Editor, Group Psychotherapy, 1952 - present

Lewis Yablonsky

Other:

1. Director, Crime Prevention Program, Morningside Heights; New York City, N. Y. 1953-58.

2. Research associate, N. Y. University Highfields, Project, (Institutionalized delinquents) 1949-52.

3. President, American Society of Group Psychotherapy, 1959-60

4. Consultant, Rockefeller Brothers (Analysis of Juvenile Delinquents Control in N. Y. State)

Awards:

DeRoy Award, 1959, for "Best Paper on Social Problem - Oriented Research." Presented by the Society for the Study of Social Problems.

Edwin D. Driver, Ph.D. University of Pennsylvania

Teaching Experience: Instructor, University of Massachusetts, 1948-54; Assistant Professor 1954-59; Associate Professor 1959 - Visiting Lecturer: Smith College, 1960-61.

Award: Fulbright Lecturer, Nagpur University, Nagpur, India, 1957-58; Acting Director, Seminar in American History and Culture, Andhra University, May 1958.

Articles:

1. Criminology, Publication of the Bureau of Government Research University of Massachusetts, 1950.

2. "Charles Buckman Goring: Pioneer in Criminology", Jl. Crim. Law & Crimin., Jan-Feb. 1957. Reprinted as Chap. 17 in H. Mannheim, Pioneers in Criminology, London: Spencer, 1960, pp. 335-348.

3. Administrative Adjudication of Deviant Conduct of Physicians in New York and Massachusetts: A Study in Social Control." Univ. of Michigan Microfilm Series, 1957.

4. "Methodology in the Study of Crimer Causation and Criminal Law", Sociological Bulletin, March 1958.

5. "Fertility Differentials Among Economic Strata in Central India," Eugenics Quarterly, June 1960.

6. "Interaction and Criminal Homicide in Central India", Social Forces, 1961 (in press)

Monograph

Differential Fertility in Central India: A Field Study, Approx. 200 pp. will be completed in June, 1961. (in process)

Book Reviews:

1. H. E. Barnes and N. Teeters, "New Horizons in Criminology", 1951, Jl. Crim. Law & Crimin., June-July 1956.

2. H. Jones, "Crime and the Penal System," 1956, Jl. Crim. Law & Crimin., June-July 1956.

3. J. Jersild, "Boy Prostitution", 1956, Jl. Crim. Law & Crimin., June-July 1956.

4. U. N. Secretariat, Bureau of Social Affairs, "International Review of Programs of Social Development, 1959", American Sociological Review, December 1959.

5. Society for Psychological Study of Social Issues, "The Role of the Social Sciences in Desegregation: A Symposium, 1958," American Sociological Review, June 1959.

6. S. Nataragan, "A Century of Social Reform in India," 1959, American Sociological Review, August 1960.

Mr. Driver

7. J. C. Mathur & P. Neurath, "An Indian Experiment in Farm Radio Forum, 1959," American Sociological Review, Oct. 1960.

8. S. P. Hayes, "Measuring the Results of Development Projects: A Manual for the Use of Field Workers," 1959, American Sociological Review, Oct. 1960.

9. C. W. Topping, "Crime and You, 1960, American Sociological Review, Oct.1960."

10. United Nations, "Bureau of Social Affairs, International Review of Criminal Policy," American Sociological Review, Oct. 1960.

Grants: Population Council, 1958-59; 1959-60; University of Massachusetts Research Council, 1958, 1960, 1961.

Other: Editorial Staff, American Sociological Review, 1958-60.

John F. Manfredi, Ph.D. Harvard University

Teaching Experience: Instructor, University of Massachusetts, 1948-56; Assistant Professor, 1956-; Visiting Lecturer, Sir George Williams College, Montreal, summer, 1950; Visiting Lecturer, Mt. Holyoke College, 1950, 1957.

Memberships: American Sociological Society, Eastern Sociological Society.

Grant: University of Massachusetts Research Council Grant, 1960.

Articles:

1. "Immigration to Northampton" in The Northampton Book, ed., L. E. Vikander, H. U. Faulkner, H. C. B. Ford, E. C. Rozwenc, and E. C. Shepard, Northampton, Massachusetts, 1954, pp. 331-336.

2. "Religious Sectarianism in the United States," a demographic study. (in process)

3. "Societal Complexity and the Limitation of Alternatives," (in process)

Book Review:

1. Manis, J. G., and Clark, S. I., Editors, Man and Society, N. Y., Macmillan Co., 1960. American Sociological Review, Vol. 26, #2, April, 1961, p. 338.

Francis P. Conant, Ph. D., Columbia University

Teaching Experience: Lecturer, Columbia University, 1956-7; Lecturer, Hunter College, 1960; Assistant Professor, University of Massachusetts, 1960-.

Grants: Ford Foundation Fellow, field work in Northern Nigeria, 1957-59; American Anthropological Association - Smith, Kline and French Fund, 1956-9; American Museum of Natural History Grant, 1957-9; University of Massachusetts Faculty Research Grant, 1960-.

Books: With H. D. Gunn, Pagan Peoples of the Middle Niger Region of Northern Nigeria, International African Institute, London. 1960.

Dodo of Dass: A Study of a Pagan Religion in Northern Nigeria, Doctoral dissertation, Columbia University, New York, and University Microfilms, Ann Arbor, Michigan, 1960.

Articles:

1. "Dependent Peoples," International Conciliation, No. 504, pp. 58-88, 1955.
2. "The Sahara," Natural History, LXIII, No. 9, pp. 392, et sq., 1954.
3. "The Nile," The New York Times Magazine, 10 Oct. 1954, pp. 14 et sq.
4. 1948-1952, newspaper articles on the topics of the Finnish Communist Party, Finnish national elections, and Finno-Russian post-war relations. These were published in the Des Moines Register and Tribune, Dallas Morning News, and Christian Science Monitor. The articles were a by-product of research into the German, Russian, and Finnish campaigns in Lappland and Karelia during World War II. As newsman for United Press (1952-1953), considerable copy was written for the national radio news service (NY Bureau).
5. "The Ritual Use of Rock Gongs in Northern Nigeria," in Transactions of the New York Academy of Sciences, December, 1960.
6. "Some Political and Social Implications of the Kin System of Address Among the Northern Nigerians." Anthropological Linguistics, Dec. 1960
7. "Shallow-depth Archaeology: A Bridge Between African Pre-History and History," in Proceedings of the New York Academy of Sciences, to be published, probably in July/August 1961. (forthcoming)
8. "The Political Uses of Pagan Ritual." To be submitted to Africa, quarterly journal of the Royal Anthropological Institute. (In process)
9. "Some Uses of the Rock Gong in Northern Nigeria." To be submitted to Man, Monthly Journal of the Royal Anthropological Institute. (In process)

Book Reviews:

1. Collections Ethnographiques: Touareg Ahaggar, Balout, Bovis, Gast, et al., Reviewed in American Anthropologist, V. 62, No. 5, October, 1960, p. 906.

2. A Handbook of the African Collections of the Commercial Museum, Philadelphia. The American Anthropologist. (forthcoming)

3. Second Conference on African History and Prehistory in Man, Monthly Journal of the Royal Anthropological Institute of Great Britain & Ireland. (forthcoming)

Joseph Lopreato, Ph. D., Yale University

Teaching Experience: Assistant Professor, University of Massachusetts 1960-

Memberships: American Sociological Association, Eastern Sociological Association, Society for Applied Anthropology

Articles:

1. Joseph Lopreato & Domenico Lococo, "Stefanaconi: un villaggio agricolo Meridionale in relazione al suo mondo." Quaderni di Sociologia (Turin, Italy, No. 34, Autumn, 1959.

2. Joseph Lopreato, "Social Stratification and Mobility in a Small Italian Town," American Sociological Review, (forthcoming, Aug, 1961)

3. _____, "Social Classes in an Italian Farm Village," Rural Sociology, (forthcoming, 1961)

In Process

1. "Economic Development and Cultural Change: The Role of Emigration."

2. "The Measurement of Social Mobility."

Grant: University of Massachusetts Research Council Grant, 1961, for project: "The Role of Emigration in Social Change."

- -

Keith A. Lovald, Ph. D., University of Minnesota

Teaching Experience: Assistant Professor, Jamestown College, 1956-57; South Dakota State College, 1957-58; Assistant Professor, University of Massachusetts, 1960-.

Membership: American Sociological Association, Midwest Sociolgical Society,

Articles:

1. With Theodore Caplow and Samuel Wallace, A General Report on the Problem of Relocating the Population of the Lower Loop Redevelopment Area, Minneapolis Housing and Redevelopment Authority, 1958.

2. Keith Lovald, "The Social Life of the Aged Homeless Man in Skid Row," Proceedings of the Fifth International Congress of Geronotology, 1961 (Forthcoming)

In Progress:

From Hobohemia to Skid Row: The Changing Community of the Homeless Man.

Mrs. Mary E. W. Goss, Ph. D., Columbia University. Research Associate, College of Medicine, Cornell University.

Awards: University Merit Scholarship, State University of Iowa, 1946-47 Gilder Fellow, Columbia University, 1951-52.

Memberships: Phi Beta Kappa, American Sociological Association, Eastern Sociological Society, American Academy of Political and Social Science, American Association for the Advancement of Science , American Public Health Association.

Professional Positions Held

Past:
Research Assistant in Sociology, State University of Iowa, 1947-48
Research Assistant in Political Science, Amherst College, 1949
Instructor in Sociology, Smith College 1949-50
Instructor in Sociology, University of Massachusetts, 1950-51; 1955-56
Research Associate, Bureau of Applied Social Research, Columbia University, 1952-53.
Member of Editorial Staff American Sociological Review, 1957-60

Present:
Consultant in Sociology, Comprehenxive Care and Teaching Program, New York Hospital - Cornell Medical Center, 1957- Research Associate in Sociology, Department of Medicine, Cornell, University Medical College 1959- Associate Editor, American Sociological Review, 1960-

Publications and Reports:

1. "Student Orientations Toward the Cornell Comprehensive Care and Teaching Program," (with Selvin, Kendall, and Davies), New York: Bureau of Applied Social Research, Columbia University, 1953. (mimeographed, 155pp.)

2. "Student Experiences in the Cornell Comprehensive Care and Teaching Program," (with Cooperstock, Davies, and Kendall), New York: Bureau of Applied Social Research, Columbia University, 1954. (dittoed, 90pp.)

3. "Collaboration Between Sociologist and Physician," (with George G. Reader), Social Problems, 4 (July, 1956), pp. 82-89.

4. "Change in the Cornell Comprehensive Care and Teaching Program," in Merton, Reader, and Kendall, The Student-Physician, Cambridge: Harvard University Press, 1957, pp. 249-270.

5. "The Sociology of Medicine," (With Reader), in Merton, Broom, and Cottrell, Jr., Sociology Today, New York: Basic Books, 1959, pp. 229-246.

6. "Physicians in Bureaucracy: A Case Study of Professional Pressures on Organizational Roles," (Abstract), Dissertation Abstracts, 20 (No. 2, 1959), p. 1087.

7. "Medical Sociology, with Particular Reference to the Study of Hospitals," (with Reader), in Transactions of the Fourth World Congress of Sociology, London: International Sociological Association, 1959, Vol. 2 pp. 139-152.

8. "Report on Sociology of Medicine Discussion Section," in Transactions of the Fourth World Congress of Sociology, London: International Sociological Association (in press), Vol. 3.

9. "Influence and Authority among Physicians in an Outpatient Clinic," American Sociological Review, February, 1961.

Book Reviews:

1. Medical Sociology: Theory, Scope and Method, by N. G. Hawkins, American Sociological Review, 24 (June, 1959), pp. 435-436.

2. Patients, Physicians and Illness, ed. by E. G. Jaco, American Sociological Review, 24 (December, 1959), pp. 910-911.

3. Medical Care Needs and Services in the Boston Metropolitan Area, by L. S. Rosenfeld, J. Katz, and A. Donabedian, American Sociological Review, 24 (October, 1959), p. 748.

4. Problems in Intercultural Health Programs, by G. M. Foster, American Sociological Review, 24(October, 1959) p. 748.

5. Readings in Medical Care, by the Committee on Medical Care Teaching of the Association of Teachers of Preventive Medicine, American Sociological Review, 25 (Feb., 1960), p. 151.

6. Comprehensive Medical Services Under Voluntary Health Insurance, by B. J. Darsky, N. Sinai, and S. J. Axelrod, American Sociological Review, 25 (August, 1960); pp. 612-613.

7. Liberal Education in the Professions, and The Graduate School and the Decline of Liberal Education, by E. J. McGrath, American Sociological Review, (in press).

8. Recent Contributions of Biological and Psychosocial Investigations to Preventive Psychiatry, ed. by R. H. Ojemann, American Sociological Review, 25 (October, 1960), pp. 785-786.

9. Patterns of Professional Education, by W. J. McGlothlin, American Sociological Review, Vol. 26, No. 2, April, 1961, pp. 324-5m

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FINANCE

May 5, 1961, 10:30 a.m., Statler Hilton Hotel, Boston

COMMITTEE

Chairman Healey presiding

PRESENT: Trustees Healey, Brett, Cashin, Hoftyzer, Pumphret, President Lederle, Secretary Gillespie and Treasurer Johnson

The committee reviewed the auditor's report and noted his various comments. The Treasurer was directed to send to the Attorney General for purposes of collection, accounts receivable outstanding for more than one year with the notation as to which accounts can probably be collected by the University and which should be handled by the Attorney General.

The need for an investment counsel was discussed. On motion duly made and seconded, it was

Investment Counsel Service

VOTED: To recommend to the Board of Trustees that they engage the services of Standish Ayer and McKay, Inc. as investment counsellors at $1,000 per year paid on quarterly installments and cancelable at the end of any quarter.

It was

Shares

VOTED: To confirm the verbal vote of the Finance Committee of April 11, 1961 authorizing the use of 600 American Telephone and Telegraph Company rights and $2580 for the subscription to 30 shares of American Telephone and Telegraph common stock.

It was

Joseph W. Bartlett Student Loan Fund

VOTED: To use the "general purpose" bequest of $1,000 from Joseph W. Bartlett to establish a Joseph W. Bartlett Student Loan Fund and to use the principal and income from this fund for matching funds under the National Defense Student Loan Program provided that when the National Defense Student Loan Program no longer is in need of said fund, they shall be returned to the Joseph W. Bartlett Student Loan Fund.

COMMITTEE

Seymour Israel Barowsky Scholarship Fund

It was

VOTED: To establish the Seymour Israel Barowsky Scholarship Fund as an endowment fund of the University with a gift of $5,000 from Mr. and Mrs. Jacob L. Barowsky and family. The income from this fund is to be used in accordance with the terms of the gift for a scholarship for:

1. A student from Holyoke, Massachusetts.

2. If no student from Holyoke is available, its is then to be given to a student from the Holyoke-Springfield area.

3. If no student is available from either of the above two, then it may be granted to any student the Scholarship Committee considers worthy.

4. High scholastic standing need not be a condition of the grant.

At the next meeting of the Finance Committee, it was agreed that the committee will consider a policy on financing trust fund research.

The meeting adjourned at 12:10 p.m.

John Gillespie
Secretary of the University

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FINANCE

June 29, 1961, 4:00 p.m., Statler Hilton Hotel, Boston

Chairman Healey presiding

PRESENT: Trustees Healey, Brett, Cashin, Fox, Hoftyzer, Pumphret, President Lederle, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan; also, Mr. Herman Pike and Mr. John Wood of Standish, Ayer & McKay, Inc.

Investment Counsel Report

Chairman Healey called upon Mr. Pike of Standish, Ayer & McKay, Inc., to explain more completely to the Committee the report of the investment counsel which had been distributed to them. Mr. Pike amplified the statement of the recommendations regarding the balance to be maintained in the portfolio along with his suggestions of approach to the situation. There was a general discussion regarding the holdings of bonds, preferred and common stock, plus the use of the uninvested capital.

Upon recommendation of investment counsel, and on motion duly made and seconded, it was

Pacific Gas & Electric "Rights"

VOTED: That the 100 Pacific Gas & Electric "rights" be sold at the market.

Upon recommendation of the investment counsel, and on motion duly made and seconded, it was

Portfolio Distribution

VOTED: That the portfolio distribution as outlined in the recommendations of Standish, Ayer & McKay, Inc., on June 27, 1961 be established at approximately 50.5% of the portfolio in common stocks.

On motion duly made and seconded, it was

Proposed Portfolio

VOTED: To authorize Standish, Ayer & McKay, Inc., of Boston, acting for the Trustees, to sell the following securities:

COMMITTEE

$2,000 Gen. Tire & Rubber 4 3/4, 1981
1,000 Indiana Limestone 4, 1975
1,000 Missouri Pacific RR 4 1/4, 1990
1,000 Missouri Pacific RR 4 1/4, 2005

200 Shs. American Sugar Refining Pfd.
80 Shs. Duquesne Light 4% Pfd.

500 Shs. Paramount Pictures
88 Shs. Reliance Insurance
200 Shs. Tri-Continental Corp.
250 Shs. Republic Steel

Treasurer Kenneth W. Johnson is authorized to sign the certificates for sale.

On motion duly made and seconded, it was

Buy and Sell Authorization

VOTED: That Standish, Ayer & McKay, Inc., be authorized to administer the mechanics of the buying and selling of the proposed portfolio.

Following a discussion of the timing in the buy and sell decisions regarding the portfolio in the future, the motion was duly made and seconded, and it was

VOTED: That on advice of investment counsel the Chairman will attempt to contact all the Committee but will have the right to make use of the majority decision in the case of buying and selling securities in the future. He will make a report of his actions to the Full Board of Trustees meetings.

Treasurer Johnson explained that the Receiving Tellers in their handling of over two million dollars in cash during the past year had a cash variance of a shortage of $12.06. On motion duly made and seconded, it was

Trust Fund Interest Account

VOTED: To recommend to the Board of Trustees to write off the cash variance of the Receiving Tellers for the period July 1, 1960 to June 29, 1961, in the amount of a shortage of $12.06 to the Trust Fund Interest Account.

The meeting was adjourned at 4:55 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary, Board of Trustees

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS & GROUNDS

July 12, 1961, 10:30 a.m., President's Office, U of M

Chairman Whitmore presiding

PRESENT: Trustees Whitmore, Schuck, Pumphret, Cashin, Thompson. Also President Lederle, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan, Construction Engineer Hugill, Judge Samuel Blassberg part time; Rev. Ewald Mand, Mr. Gates and Mr. Strong of the First Baptist Church of Amherst, part time.

Prior to the opening of the meeting, Trustee Pumphret, as Chairman of the University of Massachusetts Building Authority, officially broke ground for Dormitory B, representing the first two buildings now under construction by the Building Authority for the University.

Master Planning

President Lederle presented the organization of the Committees for Academic and Physical Planning. The Master Planning Committee has met twice to date; the second time the meeting was with Hideo Sasaki of Sasaki Walker Associates, Watertown, Massachusetts. The President reported that the Committee was enthusiastic about Mr. Sasaki and he was ready to recommend him as a consultant to the University for site planning and layout.

Upon the recommendation of the President, and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that Hideo Sasaki of Sasaki Walker Associates, Watertown, Massachusetts, be retained as a consultant for site planning and layout at the University.

A general discussion followed relative to architectural consultants. It was felt that this area could be left open at this time and that possible consultants could be suggested and contacted.

UNIVERSITY OF MASSACHUSETTS

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Designers - Proposed Projects

Men's Physical Education Building

Item A - Men's Physical Education Field. Mr. Johnson reported that approximately $600,000 would be available for this project. Following a discussion, and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that they recommend to the Division of Building Construction, Commission on Administration & Finance, that the following firms, in order of preference, be considered for the design of the Men's Physical Education Field.

1. Gordon E. Ainsworth & Associates, South Deerfield, Massachusetts.

2. Whitman & Howard, Boston, Massachusetts.

Administration Building

Item B - Administration Building. Mr. Johnson reported that Hall Nichols has set aside planning money for this project. A discussion was held relative to the design award for this project. It was felt that Campbell & Aldrich should receive consideration as the Administration Building is a part of their original study of the School of Business and Administration complex. Due to the importance of this area, it was suggested that architectural consultants be used with this project. Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that they recommend to the Division of Building Construction, Commission on Administration & Finance, that the firm of Campbell & Aldrich, Boston, Massachusetts, be the designer for the Administration Building in conjunction with an architectural consultant. The recommendation should further state that the consultant be either Pietro Belluschi of Cambridge or Eero Sarrinen of New Haven.

Coal Handling Equipment

Item C - Coal Handling Equipment. Mr. Johnson explained that this is for the purpose of making an engineering study as to the relative merits of two railroad proposals for coal handling with plans for equipment. Following a discussion, and upon motion

duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that they recommend to the Division of Building Construction, Commission on Administration & Finance, that in order of preference, the following firms be considered for the engineering study of the coal handling facilities.

1. Lockwood-Green, Boston, Massachusetts.

2. Stone & Webster, Boston, Massachusetts

Renovation of Older Buildings

Item D - Renovation of Older Buildings. Treasurer Johnson explained that this item is for the purpose of making studies, preliminary sketches and cost estimates for a number of buildings on campus to bring them up to date for current and future usage. Following discussion, and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that they recommend to the Division of Building Construction, Commission on Administration & Finance, that the architectural firm of James A. Britton, Greenfield, Massachusetts, do the studies, sketches and cost estimates for the renovation of the following buildings: Fernald Hall, Engineering Shops, Goessmann Laboratory, Chapel, Marshall Hall, Flint Laboratory, Clark Hall, French Hall, West Experiment Station, Shade Tree Laboratories and Fisher Laboratory.

Dormitories

The site for the next dormitories for 1000 students was discussed by the Committee and it considered the recommendations of the University Master Planning Committee for the location south of the Dining Commons. It was reported by the Planning Committee that Mr. Sasaki had been consulted on this location and he gave his opinion that the site was favorable. As Mr. Sasaki will be the consultant on site planning, it was suggested that Mr. Sasaki and Hugh Stubbins & Associates be requested to join in a site survey for the 1000 student dormitories. Following this survey, the would

COMMITTEE

then meet jointly with the Buildings & Grounds Committee of the Board of Trustees, the sub-committee of the University of Massachusetts Building Authority, and the University Master Planning Committee. This study and meeting should be accomplished as soon as possible.

Land Acquisition

Copies of the appraisers report for the DePillis property were distributed to the Committee. Judge Blassberg reported that the asking price of $14,000 for the property was reasonable and upon recommendation of Judge Blassberg, and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the Committee approve the purchase of the DePillis property located at 13 Colony Court, Amherst, Massachusetts, for the sum of $14,000.

Rev. Ewald Mand and Messrs. Gates and Strong then joined the meeting as representatives of the First Baptist Church of Amherst. The group told the Committee their plan for building a church on North Pleasant Street, located on the Walter Jones property. The church recently purchased this site (Dalton Diner) which was wanted by the University. A full discussion was held between the Committee and the group regarding many of the problems involved as well as possible solutions to the situation. It was pointed out to the group that a new survey of usage of all land on campus was being made and that any final decisions must be made by the full Board of Trustees. It was, therefore, recommended to the church group that any final decisions be held up until such survey was made and the position of the Board of Trustees clarief. The Committee assured the church representatives that the Committee and the Board are interested in having church facilities adjacent to the campus for

use by the students and would keep the group informed as to action by the University.

COMMITTEE

Information Booth

President Lederle outlined the proposed gift to the University by the Class of 1961 of the construction of an Information Booth at the entrance to the campus. He outlined the action to date and suggested that it be considered by the Committee at a future meeting when a representative of the Class could be present to present the project in more detail.

School of Education Building - not accepted

President Lederle expressed his concern regarding the number of items on the School of Education Building that do not meet specifications. After discussion of some of the problems involved, and the action taken to date, upon motion duly made and seconded, it was

VOTED: That no acceptance of the School of Education Building be made until all corrections are made by the contractor to meet the plans and specifications.

Men's Physical Education Building - plans

The final plans for the Men's Physical Education Building were displayed by Mr. Hugill for the Committee. After a discussion of the plan, and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the final plans and specifications of the Men's Physical Education Building be approved subject to minor changes.

The meeting was adjourned at 4:00 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary, Board of Trustees

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS & GROUNDS

August 15, 1961, 11:00 a.m., Statler Hilton Hotel, Boston

COMMITTEE

Chairman Whitmore presiding

PRESENT: Trustees Whitmore, Brett, Cashin, Pumphret, Schuck, also President Lederle, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan, Robert Gordon representing the University Authority, Hideo Sasaki representing Sasaki Walker & Associates, Inc., Hugh Stubbins representing Hugh Stubbins & Associates.

Dormitories

As the meeting was called to hear the proposal for location of a new 1,000-student dormitory by Messrs. Sasaki and Stubbins, the Chairman asked Mr. Stubbins of Hugh Stubbins & Associates to begin the discussion. Mr. Stubbins gave some general remarks regarding his visit, along with Mr. Sasaki, to the campus. Following this he turned the meeting over to Mr. Sasaki, who presented in more detail those specific recommendations that he and Mr. Stubbins felt appropriate to the situation. Among the recommendations that Mr. Sasaki presented were the following:

1. Acquire necessary lands at Site B, and accommodate 1,000 unit program in high-rise tower buildings.

2. Reorganize program and schedule to develop a continuous housing program after a review of the Master Plan is made and additional lands are acquired.

3. Reduce housing program of 1,000 units in order to utilize Site A to accommodate as many students as is possible (approximately 500), consistent with good site and architectural design.

Following the presentation, there was a general discussion on site locations and usage of various sites and the following factors evolved from the discussion.

COMMITTEE

1. That a high-rise type of dormitory to accommodate 1,000 students could not be guaranteed for fall 1963 due to lack of construction and planning time - therefore a high-rise type of dormitory will not meet the rooming needs for fall 1963.

2. With this possibility eliminated for that date, the next phase must involve some current type of dormitory to partially meet the needs for fall 1963 students.

Upon motion duly made and seconded, it was

VOTED: To abandon the site south of the University Dining Commons for dormitory usage to be reserved for some other future purpose.

With the elimination of the Dining Commons site for dormitories, it then appeared that a review must be made of the campus to determine where a small (500 student or more) dormitory could be located to meet some of the student needs for fall 1963. To accomplish this, Messrs. Stubbins and Sasaki were requested to revisit the campus, review site locations and be prepared in a week to ten days to suggest alternate sites for this interim housing need.

It was the general consensus of opinion that the south-west corner of the campus should be the next site development for dormitories of the high-rise type and it was suggested that the purchase of this property be speeded up in order that planning can start on that site. The site to the northwest of the campus would be the next area to be developed.

The meeting was adjourned at 1:00 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary
Board of Trustees

2300

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS & GROUNDS

September 20, 1961, 12:30 p.m., Univ. of Mass., Amherst

COMMITTEE

Chairman Whitmore presiding

PRESENT: Trustees Whitmore, Cashin, Pumphret, Schuck. Also, President Lederle, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan, Hugh Stubbins and Peter Woytuk, representing Hugh Stubbins & Associates, Richard Galehouse, representing Sasaki Walker & Associates and Messrs. Rose and Flavin, representing Gordon Ainsworth & Associates

The Chairman asked Mr. Stubbins to present to the Trustee Committee and the Building Authority representatives his recommendations for the site location for the 1963 dormitories.

U of M Building Authority

Mr. Pumphret, Chairman of the University Building Authority, asked for clarification of the relationship between the University Board of Trustees and the Authority regarding the planning of the projects undertaken by the Authority. He proposed that the architectural committee of the Authority, under Miss Schuck, be the group to be the Authority representatives. It was agreed that Mr. Pumphret and Miss Schuck would receive copies of all correspondence with the architect.

This meeting was scheduled to include the members of the Building Authority Architectural Committee and Miss Schuck stated that Judge George Beauregard and Mr. Robert Gordon are the committee members. Due to the short notification time, Judge Beauregard was unable to change prior commitments and could not attend this meeting. Mr. Gordon could not attend as the meeting was scheduled on a religious holiday. She assured the committee that both gentlemen wished to cooperate in every way to expedite the construction of the dormitories.

It was further agreed that the architect would submit his preliminary sketches and plans to the Authority and the Authority would present them to the Trustees.

Site Location for 1963 Dormitories

Mr. Stubbins said that he felt the site on the top of the hill to the east of the campus was a good site and that he could build housing for 1,000 students in that area. He pointed out that he could not guarantee that all buildings would be completed by fall 1963 as this would be influenced by the contractors. He did feel that the major portion of the units would be completed.

A tentative site plan was shown to the committee. It occupied an area of approximately 500 feet on each side and consisted of four building units which could be varied from six to seven floors with occupancy ranging from 1,000 to 1,200 students for the total project.

The committee, in its discussion of the plan, agreed that it had merit. A question was raised regarding how much orchard area would be lost by this construction. Mr. Stubbins felt that by judicious planning, very few trees would be lost and that some of the young ones might be transplanted. The proximity to the President's House was also discussed. Mr. Stubbins said that this would also be considered in his planning.

The architect suggested that the Fisher Laboratory building might be removed in order to establish a more open approach to the site. However, as the final site location has not been determined, this decision was left for future discussion.

Following the discussion and upon motion duly made and seconded, it was

COMMITTEE

VOTED: That it be recommended to the Board of Trustees that the area located to the east of the President's House and north of the Greenough dormitory be designated as the site location for the 1,000 student dormitories for fall 1963.

A suggestion was made that the architect be given some freedom in planning the final capacity of the complex within a range of 1,000 to 1,200 students. This capacity figure would be discussed with the Authority and the Board of Trustees when it was determined.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees to authorize the Building Authority to initiate studies for 1,000 student dormitories and appropriate other facilities for fall 1964 in the area to the southwest of the campus.

And, it was

VOTED: To recommend to the Board of Trustees to authorize the Building Authority to study the location of a Dining Commons within the present men's dormitory area of the campus.

Architectural Consultant - Administration Building

Mr. Johnson reported that Pietro Belluschi of Cambridge will be delighted to work with the firm of Campbell and Aldrich as design consultant on the administrative building project. The consultant is acceptable to Campbell and Aldrich but must receive the approval of the Commission on Administration and Finance.

Land Acquisition

Mr. Johnson gave a progress report on the acquisition of land adjacent to the campus. He reported that (1) the DePillis property has been acquired; (2) the Paresky property has been

appraised and an offer made; (3) appraisals have been completed on the three tracts of land to the southwest of the campus and appraisals are continuing on other properties.

Agricultural Land - South Deerfield

Mr. Rose of the firm of Gordon Ainsworth & Associates gave a status report on the acquisition of agricultural land in the South Deerfield area. He stated that two tracts have been settled (Hubbard and Grybco) and that we have 90 and 60-day options on these tracts respectively. The Sumatra Tobacco Company land should be settled by the end of this month. Offers have been made on the other properties and with one exception look quite favorable. Mr. Rose felt that we would be close to the original $123,000 estimate on these total properties.

Action on the properties under option was deferred until more definitive information is available regarding the Sumatra Tobacco Company land.

The committee made an inspection tour of completed projects and it was

Education Building

VOTED: To recommend to the Board of Trustees the acceptance of the Education Building, State Project U-58-2 as completed in accordance with the plans and specifications subject to correction of certain details to the satisfaction of the Treasurer of the University of Massachusetts.

It was

Addition to Dining Commons

VOTED: To recommend to the Board of Trustees the acceptance of the Addition to the Dining Commons, State Project U-59-1 as completed in accordance with the plans and specifications subject to correction of certain details to the satisfaction of the Treasurer of the University of Massachusetts.

The committee inspected the new boilers in the Power Plant and found that the project was completed in accordance with

the plans and specifications and, it was

VOTED: To recommend that the Board accept the new boilers in the University Power Plant, Project U-702-7 as completed.

COMMITTEE

New Boilers - Power Plant

The meeting was adjourned at 4:45 p.m.

Robert J. Doolan
Assistant Secretary
Board of Trustees

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FINANCE

September 27, 1961, 11:00 a.m., Statler Hilton Hotel, Boston

Trustee Healey presiding

PRESENT: Trustees Healey, Brett, Cashin, Fox, Pumphret, President Lederle, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan

The meeting was called to order by Chairman Healey.

Investment Counsel Service

Treasurer Johnson outlined the scope of the commercial accounts for the Trust and Agency Funds being held by the University. A summary sheet of the total receipts for the fiscal year July 1, 1960 to June 30, 1961 (Attachment A) was distributed to the committee. The Trust and Agency Funds include all items of income other than those listed as State, Federal, Endowment or Student Deposits. The estimated monthly balances in the checking account (Attachment B) were discussed and Treasurer Johnson recommended that a substantial balance could be available for short-term investments.

The Treasurer stated that he was installing a system of cash budgeting and control to determine the amount of surplus operating Trust Funds that would be available.

In the committee discussion, it was decided that the Treasurer should proceed with cash budgeting and that the investment counselling firm of Standish, Ayer, and McKay, Inc. be asked for advice as to proper investments. This may lead to an extension of the contract with the Counsel.

Upon recommendation of the Chairman and on motion duly made and seconded, it was

VOTED: To authorize the Treasurer to contact the firm of Standish, Ayer & McKay, Inc. for the purpose of investing funds from the Trust and Agency Accounts not to exceed $500,000 for short-term investments.

COMMITTEE

Centennial News Letter

Upon recommendation of the President and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees to authorize the expenditure of $2,500 from the Trust Fund Interest Account for the publication of Centennial news letters.

Trust Fund Interest Account

It was the recommendation of the committee that this amount be returned to the Trust Fund Interest Account if Centennial Funds become available at a later date.

National Student Defense Loans

The Treasurer reported that we will need an amount of $2,800 to meet the matching portion for the National Student Defense Loans. We have received $79,200 in Federal Funds and must match 1/9 of this amount or approximately $8,800. There is $6,000 available from other funds.

Upon recommendation of the Treasurer and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees to authorize the Treasurer to use $2,800 from the Trust Fund Interest Account for matching funds for the National Student Defense Loans.

Student Traffic Fines

The Treasurer reported to the committee that consideration should be given to proper allocation of traffic fines. This item was tabled for discussion for subsequent meetings.

Army Military Property Bond

The Treasurer reported that the University was required to be bonded at no cost to them for responsibility for military property. A change in army regulations requires an increase in the bond from 20 to 50% of the value of property under University custody. The committee felt that the University should continue with this arrangement at the present time.

UNIVERSITY OF MASSACHUSETTS

TOTAL EXPENDITURES FOR FISCAL YEAR
JULY 1, 1960 to JUNE 30, 1961
(Excludes Capital Outlay Appropriation)

State	
Maintenance and Operation	$ 9,789,715.93
Special Appropriations	313,893.45
Research 1350-21	31,478.50
Wildlife 3304-44	7,683.02
Sub-Total - State Approp.	$10,142,772.90
Federal	$ 1,051,103.15
Endowment Income	24,620.18
Scholarships & Fellowships	83,788.02
Trust Funds	3,341,216.47
Industrial Research Grants	140,163.01
Federal Research Grants	409,659.47
Agency Funds	240,774.44
Student Deposits	373,319.83
Sub-Total - Trust & Agency Funds	$ 4,813,331.42
TOTAL	$16,011,427.47

September 26, 1961

UNIVERSITY OF MASSACHUSETTS

Trust and Agency Funds
Estimated Monthly Balances in Checking Account
Sept. 1, 1961-Feb. 1, 1962

	Beginning of Month Balance	Estimated Deposits	Total	Less: Estimated Withdrawals	End of Month Balance
Sept. 1961	$ 866,620	$1,121,862	$1,988,482	$492,795	$1,495,687
Oct. 1961	1,615,887	258,279	1,874,166	405,978	1,468,188
Nov. 1961	1,468,188	195,610	1,663,798	429,674	1,234,124
Dec. 1961	1,234,124	221,780	1,455,904	487,241	968,663
Jan. 1962	968,663	963,417*	1,932,080	485,373	1,446,707

These figures do not include Student Deposit Funds.

In Addition - Trust and Agency Fund in Savings Bank - $476,687.14

*Approximately $625,595 of this amount is for second semester payments.

September 25, 1961

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

Upon recommendation of the Chairman and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the Treasurer, Kenneth W. Johnson, be authorized to increase the Army ROTC Military Property Bond to $600,000.00.

The meeting was adjourned at 12:15 p.m.

Robert J. Doolan
Assistant Secretary
Board of Trustees

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE EXECUTIVE COMMITTEE

September 27, 1961, 12:15 p.m., Statler Hilton Hotel, Boston

COMMITTEE

Chairman Boyden presiding

PRESENT: Trustees Boyden, Brett, Cashin, Healey, Whitmore, President Lederle, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan

The President reported that after consultation with the Executive Committee, the legal firm of Ely, Bartlett, Brown and Proctor of Boston has been selected to act as legal counsel for the University of Massachusetts. The counsel must receive the approval of the Board of Trustees and the Attorney General's Office. Arrangements would be made on a quarterly basic at the rate of $2,500 per quarter subject to a mutual review each quarter.

Upon recommendation of the President and on motion duly made and seconded, it was

Legal Counsel

VOTED: That the firm of Ely, Bartlett, Brown and Proctor of Boston be recommended to the Board of Trustees to be selected as legal counsel for the University of Massachusetts subject to the approval of the Attorney General's Office at a fee of $2,500 per quarter.

The meeting was adjourned at 12:30 p.m.

Robert J. Doolan
Assistant Secretary
Board of Trustees

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON AGRICULTURE AND HORTICULTURE

October 10, 1961, 1:00 p.m., Statler Hilton Hotel, Boston

Trustee Brett presiding

PRESENT: Trustees Brett, Brown, Furcolo, McNamara, also, President Lederle, Provost Woodside, Assistant Secretary Doolan, and Dean Spielman, Associate Dean Jeffrey, Associate Director Davis of the College of Agriculture

Report of College of Agriculture

Chairman Brett called upon Dean Spielman to present the report of the College of Agriculture to the committee.

The presentation was given in four parts using charts and printed material as supplementary background information.

I. Dean Spielman reported on his activities since July 1, 1961. He gave as his objective during this period that of getting acquainted with the staffs within the various functions of the College of Agriculture - both at the University and at the Experiment Stations at Waltham and East Wareham.

The Dean has visited every department and has met almost every member personally. A tour of the state was made with Director Davis and every County Extension office was visited with the exception of Franklin County.

Dean Spielman also has met with the majority of representatives of agricultural organizations in the state.

The balance of the period was spent becoming familiar with state and University procedures which vary considerably from those in his previous locations.

Dean Spielman concluded his preliminary remarks by stating that he has found many groups in the state looking to the College of Agriculture for more help. He finds that our state personnel system is far more complicated thanthose in the other states where he has been associated. Finally, he has found that very few people fully understand the scope of the College of Agriculture.

II. Using the last point of his opening remarks, Dean Spielman gave a brief presentation on the organization of the College of Agriculture. He showed that the

COMMITTEE

teaching areas, which include the four-year agricultural courses, the graduate program, and the Stockbridge School, were but one of four basic functions. The others are Research, Extension and Public Service. He pointed out that this misunderstanding has led outsiders to determine the teacher/student ratio of the College of Agriculture by using personnel from all four areas rather than the first area only. He added that the majority of the staff do function in more than one area and because they have academic titles, the assumption is made that they all be included in the teacher-student statistics.

A general discussion period followed at this point. Further statements relative to the reliance of the people in the state upon the College of Agriculture were made and a brief discussion was held on appropriate titles. It was suggested by the Chairman that thought be given to the use of the term "Research Center" rather than Experiment Station as it would be more meaningful to the public. Some discussion was given to the relationship between the College of Agriculture and the State Department of Agriculture.

III. Associate Director Davis of the Extension Service presented the scope of his function's activities in the areas of County Extension and 4-H programs. He stated that extension now covers a broad field ranging from agriculture through home economics and money management. Its services to youth should meet the needs of not only the rural boy or girl but all youths of the state. He pointed out that Extension Service is putting more emphasis on economic and social development.

He gave a progress report on the growth of the Regional Extension movement covering two or more present county activities. The Regional plan can offer a broader range of services and specialties than is possible with a single county extension office.

Dr. Davis said that two major areas can still be improved - those of agricultural management and the marketing activities at the farmers' level. He felt that the areas of distribution and retailing have been developed quite satisfactorily to date.

The area of frozen food handling has been promoted by the Extension Service and has received nationwide recognition. Dr. Davis told of the requests for his personnel at conferences and inquiries for more information regarding frozen food handling. At the present time, a film is being prepared to cover the program.

COMMITTEE

Dr. Davis concluded his remarks by stating that a greater effort must be put into the development of land and water usage. He said that the United States Department of Agriculture has put more funds and emphasis on rural areas development and that his Extension group has been organizing to meet the needs in this state.

IV. Dean Jeffrey presented an academic summary for the College of Agriculture. There are now about 850 students in the three phases of the program, including the four-year students, graduate students, and the Stockbridge School. He showed charts of enrollments in these areas which indicated a steady growth during the last few years, after a slump during the mid-50's. As an example of the distribution of the College of Agriculture graduates, he gave a summary of the Department of Animal Science 1961 graduates and where they went following graduation. Almost 80% of them entered some phase of the field for which they were trained.

Dean Jeffrey gave a report on the regional New England cooperative plan using the Agricultural Engineering program as an example. In this program, students attend the University for the first two years and complete the last two years at the University of Maine. On a reciprocal basis, the College of Agriculture receives students from other states for the last two years of Forestry.

During the discussion which followed the presentation, Dean Jeffrey stated that the Stockbridge School accepts about three-fourths of those who apply for the two-year program and have reached a level of about 400 students in the Stockbridge School.

V. Dean Spielman then summarized the activities of the College of Agriculture and briefly covered the following additional points:

A. There is an interchange of personnel and publications between states in special areas so that coordinated programs become possible. For example, there is research currently going on in about 45 regional projects.

B. In research, the College of Agriculture covers all three of the basic phases of research. There is basic research, developmental research and the applied research covering four broad areas of production, processing, marketing and consumer areas.

C. He has received specific requests for more assistance from the College of Agriculture in the fields of Forestry, Conservation and Natural Resources and the salt-fish industry.

COMMITTEE

D. The College of Agriculture is cooperating in the regional study of New England agricultural colleges conducted by the New England Board of Higher Education. He distributed copies of the questionnaire which has been completed by the College of Agriculture. However, the work of NEBHE has been slowed down through lack of a director to coordinate and study the data being submitted.

E. A blueprint of the organization of the College of Agriculture and its future course of action should be completed by July 1, 1962 at which time more definitive goals can be presented.

The meeting concluded with the Chairman and the committee commending Dean Spielman and his associates on the lucid and excellent presentation to the group.

The meeting was adjourned at 4:45 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary
Board of Trustees

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF COMMITTEE ON RECOGNIZED STUDENT ACTIVITIES

October 13, 1961, 1:00 p.m., Student Union, Amherst

Trustee Schuck presiding

PRESENT: Trustees Schuck, Furcolo, Haigis, Pumphret, Thompson. Also, President Lederle, Provost Woodside, Dean Field, Dean Curtis, Mr. Buck, Assistant Secretary Doolan. Also student representatives: Misses Linda Achenbach, Carol Veno, Patricia Chase, Susan Sidney, Janice Reimer, Lucy Dubiel and Messrs. Arthur Tacelli, Allen Berman, Bernard Murphy, Francis Lovejoy, James Trelease and Gordon Oakes

The meeting opened with an informal luncheon which allowed the Trustees, the University staff and student representatives to meet and discuss mutual areas of interest.

The group then moved to the Colonial Lounge. Trustee Schuck opened the meeting by stressing its informal approach and stated that the purpose was to have all groups represented become better acquainted. Miss Schuck introduced the members of the Trustee committee and gave some background information on each members. This was followed by the introduction of the University staff.

Following this, the student representatives outlined to the committee, through informal discussion, some of the wide range of activities in which the University students participate. As the students represented, through their own activities, a broad spectrum of organizations, a most comprehensive summary was given.

Through this informal approach, both Trustees and students had the opportunity of asking questions as pertinent points were raised.

COMMITTEE

Concluding remarks indicated a vital interest by both the Trustee and student groups in promoting the welfare and activities of the University and mutually expressed their thanks for having the meeting. Both groups felt that more such meetings would have definite value.

Attachment A to these minutes lists the student representatives attending the meeting and their respective backgrounds and activities.

The meeting was adjourned at 3:30 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary
Board of Trustees

Student Representatives

(Women)

Linda Achenbach, 1962, Hummelstown, Pa. Major: Business, Marketing
Activities: Senate, Sec., Treas., V.P. - S.W.A.P., Chairman, Executive Board - B.S.O. Committee - Publishing Board - Distinguished Visitors Program, Chairman, - Mortar Board, Pres.

Carol Veno, 1962, Attleboro Falls, Major: English.
Activities: Kappa Kappa Gamma, Pres., Mortar Board - Scrolls - Women's Judiciary, Chief Justice - Counselor, 1959-60 - Student Teaching - Campus Varieties - Newman Club - Panhellenic Council, Sec.

Patricia Chase, 1963, Palmer. Major: Elementary Education.
Activities: Pi Beta Phi Sorority - Senate, Women's Affairs Committee - Dormitory Counselor.

Susan Sidney, 1962, Norwell. Major: Elementary Education.
Activities: Kappa Kappa Gamma Sorority - Student Union Program - S.W.A.P., Sec., Executive Board - Freshman Orientation Counselor.

Janice Reimer, 1964, Swampscott. Major: Education.
Activities: Chi Omega Sorority, Scrolls, President - Women's Judiciary.

Lucy Rubiel, 1962, Fall River. Major: Sociology & Education.
Activities: House counselor 1960-61 - House Chairman 1961-62 - Class Advisory Board,-Winter Carnival Committee - Sociology Club - Education Club - Christian Association - Senator 1959-60-Curriculum Committee 1959-60.

(Men)

Arthur Tarelli, 1962, East Boston. Major: Government.
Activities: Adelphia, Maroon Key, Sigma Alpha Epsilon, Former Pres. - Newman Club - Political Science Association - Bay State Eagles - Debating Society - Student Union Revamping Board - Dorm Counselor - B.S.O. Committee - Student Senate, Pres. Pro Tem.

Allen Beaman, 1962, Brighton. Major: English.
Activities: Adelphia - Collegian, Editor - Butterfield Dormitory, Pres. - Tennis Team, Manager - Operetta Guild, Orchestra Manager - Fine Arts Council.

Bernard Murphy, 1962, Pittsfield. Major: Government.
Activities: QTV Fraternity,-Adelphia - Revelers - Senior Class, Pres. - Student Social Activities Committee - Political Science Association.

Francis Lovejoy, 1962, Littleton. Major: Economics.
Activities: Adelphia, Pres. - Revelers - Tau Kappa Epsilon Fraternity - Statesmen, Director.

James Trelease, 1963, Springfield. Major: English.
Activities: Collegian, Editorial Editor - S.W.A.P. - UMOC, Sports Director - Van Meter Counselor.

Gordon Oakes, 1963, North Adams. Major: Poultry.
Activities: QTV Fraternity - Junior Class President - Maroon Key - Newman Club - S.W.A.P. - Campus Varieties, Publicity Chairman.

OMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FINANCE

October 19, 1961, 12:30 p.m., Statler Hilton Hotel, Boston

Chairman Healey presiding

PRESENT: Trustees Healey, Pumphret, Cashin, President Lederle and Treasurer Johnson; also, Mr. Herman Pike of Standish, Ayer & McKay, Inc.

Treasurer Johnson reported that at the present time $700,000 is available for short-term investment from excess cash in the Trust and Agency Funds as indicated in Table III. This could be invested for periods from one to eight months as scheduled in the table. This is in addition to the $974,919.00 already in Savings Banks or U. S. Treasury Bills.

Mr. Herman Pike, Investment Counsel, reported on his recommendations for short-term investment policy for these Trust and Agency Funds. He recommended that under present conditions it would be advisable to limit investments to Treasury bills, Federal Land Bank obligations or prime commercial paper as conditions in the market indicate. He cautioned against any large amount of this type of funds being invested in long-term bonds although he may wish to recommend some high-grade bonds at a later time.

After thorough discussion of the investment policy, it was

VOTED: That the Treasurer, with concurrence of Investment Counsel, Standish, Ayer & McKay, Inc. of Boston, may, from time to time, invest excess balances from Trust and Agency Funds, as indicated in Table II attached, such investments to be in U. S. Treasury bills, Federal Land Bank obligations, prime commercial paper, or prime finance company notes, and to report such investments when made to the Finance Committee of the Trustees.

UNIVERSITY OF MASSACHUSETTS

The meeting was adjourned at 1:55 p.m.

COMMITTEE

Kenneth W. Johnson
Treasurer

TABLE I

UNIVERSITY OF MASSACHUSETTS

TRUST AND AGENCY FUNDS

Analysis by Funds of Cash, Oct. 1, 1961

Type of Fund	No. of Individual Accounts		Amounts
Scholarship	30		$ 41,374.20
Student Loans	13		32,638.67
Athletics	2		83,711.50
Uniform Deposits	1		71,150.22
Boarding Halls	1		680,620.37
Student Health Service	1		96,676.73
Student Union Funds:			
University Store	1	$258,604.14	
Reserve Account	1	59,103.24	
General Fund	1	142,436.71	
Food Service	1	39,265.90	
R. S. O.	200	129,014.26	
	204		624,647.25
Research Grants:			
Industrial Funds	63	165,304.65	
Federal Funds	68	196,142.98	
	131		361,947.63
All Other Trust Funds	47		164,082.91
Agency Funds	12		168,798.40
Total	442		$2,325,472.00

UNIVERSITY OF MASSACHUSETTS

TRUST AND AGENCY FUNDS - ESTIMATED CASH FOR SHORT-TERM INVESTMENT

Week Ending		Balances All Funds	Invested At This Time	Balance Checking Acct.	Bank Minimum	Net Balance Checking Acct.
1961						
Oct. 2	Cash Balances	$2,325,472	$436,687	$1,848,785	$200,000	$1,648,785
7		2,312,122	974,919	1,337,203	200,000	1,137,203
14		2,283,585	974,919	1,308,666	200,000	1,108,666
21		2,214,024	974,919	1,239,105	200,000	1,039,105
28		2,224,676	974,919	1,249,757	200,000	1,049,757
Nov. 4		2,169,798	974,919	1,194,879	200,000	994,879
11		2,136,356	974,919	1,161,437	200,000	961,437
18		2,073,253	974,919	1,098,334	200,000	898,334
25		2,027,234	974,919	1,052,315	200,000	852,315
Dec. 2		1,925,174	974,919 #	950,255	200,000	750,255
9		1,940,227	974,919 ##	965,308	200,000	765,308
16		1,855,042	974,919	880,123	200,000	680,123
23		1,704,541	974,919	729,622	200,000	529,622
30		1,704,278	974,919	729,359	200,000	529,359
1962						
Jan. 6		1,765,050	974,919	790,131	200,000	590,131
13		1,879,356	974,919	854,437	200,000	654,437
20		1,864,669	974,919	889,750	200,000	689,750
27		2,313,986	974,919	1,339,067	200,000	1,139,067
Feb. 3		2,344,857	974,919	1,369,938	200,000	1,169,938
10		2,194,257	974,919	1,219,338	200,000	1,019,338
17		2,185,050	974,919	1,210,131	200,000	1,010,131
24		2,132,980	974,919	1,158,061	200,000	958,061
Mar. 3		2,158,221	974,919	1,183,302	200,000	983,302
10		2,115,461	974,919	1,140,542	200,000	940,542
17		2,069,698	974,919	1,094,779	200,000	894,779
24		1,998,121	974,919	1,023,202	200,000	823,202
31		1,961,573	974,919	986,654	200,000	786,654
Apr. 7		1,890,590	974,919	915,671	200,000	715,671
14		1,820,522	974,919	845,603	200,000	645,603
21		1,771,523	974,919	796,604	200,000	596,604
28		1,787,333	974,919	812,414	200,000	612,414

TRUST AND AGENCY FUNDS - ESTIMATED CASH FOR SHORT-TERM INVESTMENT Page 2

Week Ending 1962		Balances All Funds	Invested At This Time	Balance Checking Acct.	Bank Minimum	Net Balance Checking Acct.
May 5	Cash Balances	$1,803,898	$974,919	$828,979	$200,000	$628,979
12		1,687,937	974,919	713,018	200,000	513,018
19		1,651,385	974,919	676,466	200,000	476,466
26		1,610,824	974,919	635,905	200,000	435,905
June 2		1,623,409	974,919	648,490	200,000	448,490
9		1,575,459	974,919	600,540	200,000	400,540
16		1,539,178	974,919	564,259	200,000	364,259
23		1,502,446	974,919	527,527	200,000	327,527
30		1,501,588	974,919	526,669	200,000	326,669

\# 300,000 U. S. Treasury Bills due 11/30/61

200,000 U. S. Treasury Bills due 12/14/61

TABLE III

UNIVERSITY OF MASSACHUSETTS

SUMMARY

TRUST AND AGENCY FUNDS

ESTIMATE OF CASH FOR SHORT-TERM INVESTMENTS

Period	Time	Amount
Funds Currently Available		
Oct. 19, 1961 - June 30, 1962	8½ months	$300,000
Oct. 19, 1961 - June 9, 1962	7½ "	100,000
Oct. 19, 1961 - May 12, 1962	6 3/4 "	100,000
Oct. 19, 1961 - Dec. 9, 1961	1 3/4 "	100,000
Oct. 19, 1961 - Dec. 16, 1961	2 months	100,000
		$700,000
Estimated Future Surpluses		
Jan. 3, 1962 - April 5, 1962	3 months	100,000
Jan. 27, 1962 - Mar. 24, 1962	2 "	100,000
Feb. 10, 1962 - April 7, 1962	2 "	100,000
Feb. 10, 1962 - Mar. 19, 1962	1 "	100,000

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON
FACULTY AND PROGRAM OF STUDY

November 10, 1961, 1:00 p.m., Student Union, Amherst

Chairman Haigis presiding

PRESENT: Trustees Haigis, Crowley, Furcolo. Schuck and President Lederle. Also, Provost Woodside, Assistant Secretary Doolan, Registrar Lanphear, and Deans Jeffrey, Kirshen, Marston, McGuirk, Purvis and Wagner

Student Transfer Study

Chairman Haigis called upon Registrar Lanphear to discuss his report on transfer students within the University.

Following a review of the figures in the report, Mr. Lanphear summarized his findings by stating that the number of transfers was not abnormal in a program of this size. He stated that much of it was due to a normal adjustment of student needs and interest.

A general discussion followed in which the Deans presented additional views and information relative to the figures given in the report. The committee pointed out that Mr. Lanphear's report to the full Board of Trustees on October 21st gave the data on academic failure and this report showed the transfer data. However, there appeared to be a third area, that of drop-outs for other reasons, that was not picked up at this time.

Mr. Lanphear stated that such data for the University are included in his annual report and could be broken out for the committee. He read off the drop-out information for the Class of 1961 giving details of reasons for drop-outs.

Dean Marston presented similar data for the School of Engineering which provided individual school statistics for the same class.

COMMITTEE

The committee asked Mr. Lanphear if he could summarize the total University picture and include a summary of Dean Marston's study to show data for an individual school.

Special Examinations

Mr. Lanphear and the Deans were thanked by the committee for attending the meeting and providing the information.

The committee then discussed the proposal for establishing a credit-hour charge for special examinations. Mr. Lanphear stayed at the meeting to present background information on the proposal. The Provost outlined the requirements for the earning of credit through special examinations. The committee was in full agreement on the purpose of the examinations, but asked the Provost, for information purposes, to prepare a brief summary of the purpose and requirements for special examinations for distribution to the full Board.

Upon recommendation of the Provost, and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that a charge of five dollars ($5.00) per credit be established for special examinations. Such charge will be payable before final arrangements are made with the instructor in charge of the course.

Undergraduate Courses

Provost Woodside presented the additions, changes, and deletions to the undergraduate programs of study as outlined in Attachment A to the meeting agenda.

Upon recommendation of the Provost, and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the approval of the additions, changes, and deletions to the undergraduate programs of study as outlined in Attachment A to these minutes and made a part of these minutes.

UNIVERSITY OF MASSACHUSETTS

COMMITTEE

New Graduate Courses

The committee discussed the proposed new courses in the graduate program as outlined in Attachment B to the meeting agenda.

Upon recommendation of the Provost, and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the approval of the graduate courses as outlined in Attachment B to these minutes and made a part of these minutes.

Four-College Doctorate Program in Geology

The committee discussed the proposal for the Four-College Doctorate Program in Geology as submitted through Attachment C to the meeting agenda. The Provost reported that this would be the fourth doctoral area in the cooperative four-college effort. The other areas are in Biological Sciences, Chemistry, and French. The committee's reaction was very favorable and the Provost was commended for the very complete written presentation.

Upon recommendation of the Provost, and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the approval of the Four-College Doctorate Program in Geology as outlined in Attachment C to these minutes and made a part of these minutes.

The meeting was adjourned at 4:15 p.m.

Robert J. Doolan
Assistant Secretary
Board of Trustees

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UNIVERSITY OF MASSACHUSETTS

COMMITTEE

UNIVERSITY OF MASSACHUSETTS
Undergraduate Courses

A. College of Agriculture

Land. Arch 29

Landscape Architecture 29 (I). GRAPHICS
Special techniques and symbols for landscape plans, sections and pictorial elevation, and the use of perspective charts and color in various media.
2 3-hour laboratory periods Credit 3

Land Arch 77, 78

Landscape Architecture 77 (I), 78 (II). URBAN PROBLEMS
Housing, industrial location and development, decentralization, arterial systems, civic and metropolitan design, and regional planning. Open to non-majors
Prerequisites Landscape Architecture 73, 74, or permission of the instructor.
3 class hours Credit 3

Wildlife 61

Wildlife Management 61 (I). PRINCIPLES OF WILDLIFE MANAGEMENT
Fundamental ecology and principles of wildlife management with emphasis on population characteristics and responses.
2 class hours, 1 4-hour laboratory period Credit 3

Wildlife 62

Wildlife Management 62 (II). TECHNIQUES OF WILDLIFE MANAGEMENT
Methods of collecting and interpreting data in wildlife management with emphasis on field and laboratory experience in census methods and criteria for determining sex, age and other characteristics of wild birds and mammals.
2 class hours, 1 4-hour laboratory period Credit 3

Wildlife 63

Wildlife Management 63 (I). MANAGEMENT OF WETLAND WILDLIFE (1962-63)
Life histories, identification and habitat requirements of waterfowl and marshland furbearing animals; management of wetland habitats. Given in alternate years.
2 class hours, 1 4-hour laboratory period Credit 3

Wildlife 64

Wildlife Management 64 (II) MANAGEMENT OF UPLAND WILDLIFE (1961-62)
Life histories, identification and habitat requirements of upland game birds, game mammals and furbearers; management of upland habitats. Given in alternate years.
2 class hours, 1 4-hour laboratory period Credit 3

Wildlife 97, 98

Wildlife Management 97 (I), 98 (II). SPECIAL PROBLEMS
Qualified seniors who have completed most of the wildlife courses may arrange for work on a special problem in a selected phase of wildlife management.
Credit 2-4. Total credits for two semesters may not exceed 6

B. College of Arts and Sciences

Botany 84

Botany 84, ANTECOLOGY
Plant behavior in relation to the physical and biological environment, with emphasis on the ecology of individual plants.
Prerequisites: Botany 57 and 81.
2 3-hour laboratory-discussion periods Credit 3

Chemistry 3, 4

Chemistry 3 (I), 4 (II), GENERAL INORGANIC CHEMISTRY
A study of the fundamental chemical laws and theories, and including the elements of qualitative analysis. For students planning to major in chemistry and others for whom the course is a departmental requirement.
2 class hours, 2 3-hour laboratory periods Credit 4

Economics 75

Economics 75, MATHEMATICAL METHODS IN ECONOMICS
The applications of various mathematical concepts and techniques in macro-economic and micro-economic analysis. Special emphasis is placed on the design and interpretation of mathematical models of economic phenomena.
Prerequisites: Economics 25, 26; Mathematics 1, 2 or 4, or consent of the instructor.
3 class hours Credit 3

Economics 81

Economics 81, EUROPEAN ECONOMIC EVOLUTION
Evolution of economic organization in agriculture, industry and commerce; the surrounding social and institutional life.
Prerequisites: Economics 25, History 5 and 6, or consent of the instructor.
3 class hours Credit 3

Economics 88

Economics 88, FINANCIAL ASPECTS OF BUSINESS
The application of modern flow-of-funds analysis to the financial behaviour of the various sectors of the economy. Special emphasis is placed on the financial aspects of business units and the business sector.
Prerequisites: Economics 25 and Accounting 75, or consent of the instructor.
3 class hours Credit 3

Math 75

Mathematics 75 (I), ADVANCED ENGINEERING MATHEMATICS
Series solution of differential equations, functions of several variables, partial differential equations, numerical analysis and the Laplace transform. Not available for majors in Mathematics.
Prerequisite: Mathematics 32 or 52.
3 class hours Credit 3

Math 76

Mathematics 76 (II) ADVANCED ENGINEERING MATHEMATICS
Vectors and vector spaces, vector field theory, complex analysis. Not available for majors in Mathematics.
Prerequisite: Mathematics 32 or 52.
3 class hours Credit 3

Psych 5

Psychology 5 (I), GENERAL PSYCHOLOGY I
Introduction to basic concepts and methods of psychology. Topics include neural mechanisms, sensation, perception, emotion and motivation, learning and thinking, and problem solving.
2 class hours, 1 2-hour laboratory period Credit 3

Psych 6

Psychology 6 (II), GENERAL PSYCHOLOGY II
A continuation of Psychology 5. Topics include intelligence, human development, attitudes, conflict, personality, group processes and personality change.
2 class hours, 1 2-hour laboratory period Credit 3

Psych 51 (revision)

Psychology 51 (I), SENSATION AND PERCEPTION
A study of the data, theories and methods of studying sensation and perception.
Prerequisite: Psychology 6.
2 class hours, 1 2-hour laboratory period Credit 3

Psych 53

Psychology 53 (I), MOTIVATION
The data, theories and the methods of investigating motivation. Topics include primary drives, emotions, frustration and conflict, and learned drives.
Prerequisite: Psychology 6.
2 class hours, 1 2-hour laboratory period Credit 3

Russian 51, 52

Russian 51 (I), 52 (II), INTRODUCTION TO RUSSIAN LITERATURE
A survey course in Russian prose for Russian majors and as an introduction to Russian literature for other students. Readings in English, but Russian majors will be required to do some reading in Russian. Either semester may be elected independently.
Prerequisite: Junior standing
3 class hours Credit 3

Russian 53, 54

Russian 53 (I), 54 (II), DOSTOEVSKY AND TOLSTOY IN THEIR EUROPEAN SETTING
Each semester the important works of one author will be studied.
Prerequisite: Proficiency in Russian
3 class hours Credit 3

Russian 56

Russian 56 (II), RUSSIAN DRAMA
A study of Russian drama in the originals, from the beginnings to establishment of a Russian national repertoire and theatre culminating in the plays of Ostrovskij, Chekhov and Gorky.
Prerequisite: Proficiency in Russian
3 class hours Credit 3

Russian 57

Russian 57 (I), SOVIET LITERATURE
A representative study of the beginnings and development of Soviet prose, drama and criticism from Gorky to Sholokhov and Pasternak.
Prerequisite: Proficiency in Russian
3 class hours Credit 3

Russian 58

Russian 58 (II), RUSSIAN POETRY
A study of Russian poetry in the originals, from the early days of the 19th century to the present, with an emphasis on the major poetic trends.
Prerequisite: Proficiency in Russian
3 class hours Credit 3

Russian 61, 62

Russian 61 (I), 62 (II), ADVANCED RUSSIAN
Objectives: to build vocabulary and to improve reading ability through selections from the Classical and Soviet Periods. Compositions and class-room discussions in Russian on the material read are required.
Prerequisite: Russian 6
3 class hours, 1 laboratory hour Credit 3

Russian 63

Russian 63 (I), SCIENTIFIC RUSSIAN
Intensive experience in translating scientific expository, academic and journalistic prose.
Prerequisite: Russian 6 or the equivalent
3 class hours Credit 3

Russian 64

Russian 64 (II), THE HISTORY OF THE RUSSIAN LANGUAGE
A description of the historical development of the Russian language, its relation to other languages, changes in sound, form and vocabulary from the earliest period to the present.
Prerequisites: Russian 62, Junior or Senior standing
3 class hours Credit 3

Russian 71

Russian 71 (I), RUSSIAN CONVERSATION
Objectives: to develop fluency in speaking Russian and a conversational vocabulary appropriate for social and business intercourse.
Prerequisites: Russian 62, Junior or Senior standing
3 class hours, 1 laboratory hour Credit 3

Russian 98

Russian 98 (II), PROBLEMS IN RUSSIAN LANGUAGE AND LITERATURE
Intensive and independent work on special problems in Russian language and literature, with the results to be presented in written form. Required of all majors.
Prerequisites: Russian 62 and Senior standing Credit 1-3

C. School of Engineering

Chem Eng 80

Chemical Engineering 80, KINETICS
Principles underlying the rates at which chemical transformations take place. Review of differential equations governing reaction velocity; effect of temperature and catalysis; application to design of industrial chemical reactors.
Prerequisite: Chemistry 65
2 class hours Credit 2

M.E. 98 Mechanical Engineering 98, SCIENCE OF ENGINEERING MATERIALS
A physical explanation of the mechanical, electrical, magnetic and thermal properties of engineering materials.
Prerequisites: Chemistry 2 or 4, Physics 5 and 6 or 15 and 16, or their equivalents.
3 class hours Credit 3

I.E. 77 Industrial Engineering 72, PRINCIPLES OF ENGINEERING STATISTICS
A study of statistical principles as applied to engineering problems including: analysis of variance, design of experiments, sampling plans, statistical quality control, industrial problem solutions.
Prerequisite: Statistics 77
3 class hours Credit 3

I.E. 97, 98 Industrial Engineering 97 (I), 98 (II), INDUSTRIAL ENGINEERING PROJECTS
Individual studies, investigations or projects in Industrial Engineering of an appropriate scope and level of difficulty for students in the Honors program or a senior thesis.
Credits 1-3

D. Department of Military and Air Science

Air Sci 77 Air Science 77 (I), PRINCIPLES AND PROBLEMS OF MILITARY LEADERSHIP
Principles and techniques of leadership and management in the armed forces, with emphasis on the U.S. Air Force.
Prerequisites: Air Science 51, 52, and consent of Department.
1 class hour, 1 laboratory hour Credit 1

II. Deletion of the following courses:

A. College of Agriculture

Wildlife Management 70, PRINCIPLES OF WILDLIFE MANAGEMENT
Wildlife Management 71, WATERFOWL BIOLOGY AND MANAGEMENT
Wildlife Management 72, FOREST-ANIMAL RELATIONS
Wildlife Management 74, TECHNIQUES IN WILDLIFE MANAGEMENT
Wildlife Management 75, FURBEARER BIOLOGY AND MANAGEMENT
Wildlife Management 96, SEMINAR

B. College of Arts and Sciences

Mathematics 72, HISTORY OF MATHEMATICS
Psychology 27, GENERAL PSYCHOLOGY
Russian 55, MASTERPIECES OF RUSSIAN LITERATURE IN TRANSLATION

C. School of Engineering

Mechanical Engineering 92, ELECTRICAL ENGINEERING MATERIALS

III. New Major - Russian

The Russian Major curriculum will require elementary and intermediate language courses (Russian 1,2,4 and 5), four additional language study courses (Russian 61,62,71 and either 63 or 64), five literature study courses (Russian 51,52,53,54 and one of 56,57, 58) and a seminar course (Russian 98).

Final Write-up

GEOGRAPHY 81, World Political Geography
An analysis of the physical and human resource base from which states must operate and an appreciation of their political character in this light.
3 class hours Credit 3

Curriculum Revisions

A. Curriculum for Landscape Architecture
Math 7 in place of Math 1, 2.
Agronomy 22 required instead of listed as an alternate.
Art 33 in place of Agriculture 1.
Three new courses (Landscape Architecture 25, 77 and 78, see I.A., above.)
Revision of list of electives and rearrangement of sequence of courses.

B. College of Arts & Sciences, Basic and Distribution Requirements
(The following amendments refer to pages 63 and 64 of the 1960-61 University Bulletin on Undergraduate Schools.)

1. Restate Basic Requirement 4 by:

4. Two of the following: (a) a year in one physical science, (b) a year of biological science which may be in one or in two biological science departments, (c) a year of mathematics or a semester of mathematics and a semester of logic; students who major in natural science or mathematics must complete all three.

2. Replace Basic Requirement 5 by:

5a. Candidates for the degree of Bachelor of Arts must complete History 5 and 6.

5b. The Bachelor of Science degree may be earned only by students majoring in Mathematics, Psychology, or a Natural Science who complete at least 60 credits in courses in Mathematics, Psychology and Natural Science.

3. Revise the Distribution Requirement to read:

Distribution Requirement - six credits earned in courses of at least two credits in both of the divisions in which the student is not majoring.

In the humanities division, most courses may be offered to meet this requirement; the exceptions* are (a) specialized courses deemed to have a strong pre-professional emphasis and (b) courses which might be offered to meet a basic requirement, but History 5 and 6 may be offered by candidates for the Bachelor of Science degree.

In the social science division, all courses except Economics 12 and 25, Government 25, Psychology 26 and 27, and Sociology 25 may be offered to meet this requirement.

In the division of natural science and mathematics, the courses offered to meet the combined basic and distribution requirement must include: (a) a year in one physical science, (b) a year of biological science and (c) a third year which may be (1) a year of mathematics, (2) a semester of mathematics and a semester of logic or (3) two courses in natural science except Chemistry 80, Geography 35, 50, 55, and 81, Public Health 61, 62, 63, and 84, and Zoology 51, (Entomology 26 may be chosen).

*The official list of these courses is on file in the office of the Dean.

The courses to be so listed, in addition to those for fewer than 2 credits, are:

English: 50, 51, 52, 53, 54
French: 60
Journalism: 61, 62, 91, 92
Music: 81, 82, 83, 85, 87, 89, 90
Speech: 51, 61, 62, 63, 64, 65, 66, 71, 75, 78, 82, 83, 84, 85.

The courses which might be offered to meet a basic requirement are pre-proficiency level courses in foreign language and the logic courses, Philosophy 31 and 75.

4. Replace the first line of the major requirement by:

"Each student must complete the requirements of one of the major programs described under Junior-Senior Curricula; these programs include at least twenty-four (24) semester..." and leave the remainder unchanged.

C. Basic Nursing Program

Humanities requirement reduced from four to three courses. Reduce credit requirement in the major from 83 to 77 credits, and the total credit requirement for program from 156 to 150. Revise clinical practice requirements in major. Offer a 3 credit seminar in both semesters of senior year to integrate offerings of Nursing 65 and 96.

The revised program also will include a course in Human Growth and Development. The specifics of this course have not been established. It will be submitted for the Provost's approval at a later date.

D. Chemical Engineering Program

Chemistry 3, 4 to replace Chemistry 29.
Civil Engineering 52 to replace Civil Engineering 53.
Electrical Engineering 62, Chemical Engineering 96 and Chemistry 68 dropped from program.
Rearrangement of sequence of courses.

IV. With the Committee's agreement, the Provost approved the following revisions in Industrial Engineering Curriculum in order to provide for a B.S. degree in Industrial Engineering. At present, the degree in Mechanical Engineering awarded to Industrial Engineering majors does not properly recognize their specialized training. The change does not involve a separate department in the field.

The new curriculum will involve the following changes:

No longer required of majors:
Mechanical Engineering 64, THERMODYNAMICS II
Mathematics 57, LINEAR PROGRAMMING AND GAMES THEORY
Mechanical Engineering 61, EXPERIMENTAL MECHANICAL ENGINEERING
Industrial Engineering 75, JOB EVALUATION

Added to requirement for majors:
Industrial Engineering 56, DATA PROCESSING
Industrial Engineering 72, PRINCIPLES OF ENGINEERING STATISTICS (new course, see I.C., above)

Revision of the sequence of some of the courses.

New Course — Computer Science 21. (I) (II)

An introduction to the programming of digital computers. Topics included are basic programming systems, compiler languages, and the logic of programming and compilation. Pre-requisites: Math 1 and either 2 or 4. 1 class hours Credit 1.

Course Change — Recreation Leadership 79 and 80, Practice Leadership, Credit 6. Changed to Recreation Leadership 85, Credit 6.

Engineering Science Options

To establish optional curricula in engineering science in all departments of the School of Engineering effective September 1, 1961 for the Class of 1963 and those following. Many engineering schools, recognizing the closer ties developing between engineering and the sciences - especially physics, chemistry and mathematics - and the increased interest in graduate work both in the engineering sciences and the traditional engineering fields, have established engineering science undergraduate curricula. This approach makes such a curriculum available to students but within the already established departments. The degree will be a B.S. in these departments, i.e., B.S. in M.E. and the transcript will indicate "Major: M.E.(Engr.Sc.)".

The general requirements are as follows:

1. Interest in the Engineering Sciences (mechanics of solids, mechanics of fluids, thermodynamics, electrical sciences, nature and properties of materials, transfer and rate processes).

2. Completion of the freshman and sophomore years with a 2.8 average or above, or the sophomore year with a 3.2 average or above.

3. Probable interest in graduate study.

The curricula, planned and administered by an Engineering Science Curriculum Committee within the School, will include the following:

a. First two years of normal engineering major.

b. A core required of all consisting of:

Ch.E. 25 Fundamentals
C.E. 34 Statics
C.E. 52 Dynamics
C.E. 75 Fluid Mechanics
E.E. 41 Circuit Field Analysis I
E.E. 42 Circuit Field Analysis II
M.E. 63 Engineering Thermodynamics I
M.E. 87 Engineering Thermodynamics III
Math. 75 Advanced Calculus for Engineers I
Math. 76 Advanced Calculus for Engineers II
M.E. 88 Nature and Properties of Materials
Engr. Science Seminar (1 hr. each semester)

Most students will have had some of these courses within (a) above.

c. The remainder of the student's program will be chosen by the student in consultation with his advisor but must meet all University, School of Engineering and major department basic requirements. It is expected that there will be (a) much more freedom of choice than in the normal engineering curriculum and (b) more selection of courses outside of the major department and outside of engineering.

UNIVERSITY OF MASSACHUSETTS

M E M O R A N D U M

From . . . .Graduate Office. . . . . .Date . . . . October 18,.1961 . . . . . .

To . . . . .Mr..Robert Doolan, Assistant Secretary . . . . . .

The Graduate Council recommends to the President and Trustees the approval of a Four-College Ph.D. program in Geology. Copies of the proposal as approved by the Graduate Council are enclosed.

The Graduate Council has voted approval of the following new courses, subject to approval by the University of Massachusetts Board of Trustees:

BOTANY

Botany 210, ADVANCED PHYCOLOGY.-Detailed study of marine and freshwater algae with emphasis on phylogeny, life histories and ecology. Credit, 3. Prerequisite, Botany 161 or equivalent. Mr. Wilce.

Botany 212, ADVANCED PLANT TAXONOMY.-Lectures and discussion of methods utilized in plant taxonomy with examples drawn from cytological, genetical, morphological, serological, and chromatographic studies of higher plants. Prerequisite, Botany 159. Credit, 3. Mr. Davis.

Botany 214. FOSSIL TRACHEOPHYTES.-Detailed study of anatomy and reproductive histology of those fossil forms which best represent the phylogeny of vascular plants. Credit, 3. Mr. Putala.

EDUCATION

Education 232, HISTORY OF AMERICAN EDUCATION.-The development of American education in the context of American intellectual thought. Credit, 3. Mr. Cohen.

GEOLOGY

Geology 202, ADVANCED MINERALOGY.-Physical and chemical characteristics of minerals and methods of laboratory investigation, including X-ray, differential thermal analysis, and microchemical techniques. Credit, 3. Prerequisite, Geology 201 and permission of instructor. The Staff.

Geology 225. CENOZOIC STRATIGRAPHY.-Occurrence, correlation, and origin of marine and terrestrial Cenozoic deposits, and their relation to paleogeographic and tectonic conditions; emphasis is on North America. Prerequisites, Geology 178 and 189. Credit, 3. Mr. Webb.

Geology 227. MARINE GEOLOGY.-Physical characteristics and geological processes of the ocean basins and margins, and their bearing on interpretation of geologic history. Credit, 3. Prerequisites, Geology 178 and 194. Mr. Webb.

Geology 232. PHYSIOGRAPHY OF NORTH AMERICA.-A survey of the physiographic provinces of North America and their evolution, with emphasis on problems and methods of approach. Credit, 3. Prerequisite, Geology 189. Mr. Motts.

Geology 245. EVOLUTION OF GEOLOGIC CONCEPTS.-Perspective on current geological thinking in the light of its historical background; particular attention to controversial questions and to the rise and decline of ruling theories (required of all doctoral candidates). Credit, 3.
Prerequisite, one year of graduate study. Mr. Motts.

Geology 400, THESIS, PH.D. DEGREE. Credit, 30.

PSYCHOLOGY

Psychology 211, SENSORY PROCESSES I.Auditory and cutaneous senses; the fundamental data with their implications concerning functioning of these systems.
Prerequisites, Psychology 151 or six credits of advanced Psychology and three hours of Zoology or the equivalent. Credit, 3.
Mr. Dzendolet.

Psychology 212, SENSORY PROCESSES II.-Visual, gustatory and olfactory senses; the fundamental data with their implications concerning functioning of these systems.
Prerequisites, Psychology 151 or Psychology 207, or six credits of advanced Psychology and three hours of Zoology or the equivalent. Credit, 3.
Mr. Dzendolet.

SOCIOLOGY

Sociology 297.-RESEARCH METHODS.-Research design, research models, scaling techniques, electronic data processing techniques.
Prerequisites, Sociology 195, 196, and permission of instructor.
Credit, 3.
Mr. Lovald.

Gilbert L. Woodside, Provost
Acting Dean, Graduate School

PROPOSAL FOR A FOUR-COLLEGE DOCTORATE PROGRAM IN GEOLOGY

GENERAL STATEMENT: The Connecticut Valley area of Massachusetts has been a center of geologic study since the early days of the science. It was a Professor at Amherst College, Edward Hitchcock, who, in the 1830's, made the first geological survey of the entire state, the first survey of any entire state, in fact, made at the public expense. Hitchcock also carried out the original geological surveys of most New England states, the centenary of his "Geology of Vermont" is celebrated this autumn. Since that time, a strong tradition in geology developed further at Amherst College, and spread to the neighboring colleges.

B. K. Emerson much later summarized "The Geology of Massachusetts and Rhode Island"; he was vice president of the International Geological Congress at St. Petersburg (Russia); at home he started geology as a subject at the rising young institutions that became Smith College and the University of Massachusetts. Both Emerson and his successor, Loomis, were members of the National Academy of Science. F. B. Loomis was an outstanding student of vertebrate paleontology and carried an international reputation.

At each of the three colleges, specialized collections suited to their respective interests grew through the years, and their geological libraries gained strength in different specialized fields. At the university, a period of vigorous growth in geology started in 1946, necessarily following a somewhat different course than that in the other colleges, emphasizing fields less dependent on extensive collections. This growth was given particular impetus with the department's move into the new Morrill Science Center in 1960, making available greatly increased laboratory space and much modernized and augmented equipment of all types, and with the promise of still further expansion and improvement as two additions to Morrill are completed.

As an outgrowth of these separate lines of development, the four geology departments of the valley complement one another in virtually unique ways, and their collective scientific resources compare favorably with those of many large and well-known universities, and in some respects surpass those of leading universities. The suitability of these resources for graduate study was recognized by the individual departments in the past, and programs leading to the Master's degree have been in effect either continuously or discontinuously at each of the four colleges. No formal effort to pool their resources has been made previously, however, although informal cooperation is well established.

The recent expansion of the university department, however, now places it in a position to contribute much more effectively to a cooperative undertaking, and the time thus seems ripe for a doctorate program to be initiated on that basis.

At the same time, growing needs for more advanced training for a larger number of people provide an added incentive for developing a doctorate program here. As the technological base of our society expands and grows more complicated, many jobs in government and in industry which once could be filled by those having the bachelor's or master's degree are coming to require doctorate training. The great expansion in college and university enrollments leads to a further demand for training of more people at the doctorate level. To meet these growing needs, the four colleges have special collective qualifications.

In the following pages, the educational and research resources of each of the four departments are outlined at some length, with mention of those which have unusual aspects. This is followed by a statement concerning fields of specialization, departmental requirements, new courses desired, and other matters relating to successful activation of a doctorate program.

RESOURCES AT AMHERST COLLEGE:

DEPARTMENTAL FACILITIES:

Laboratories for the basic branches of geology, for experimental work and other research activities, and for preparation of thin sections (a highly skilled technician is on duty for the latter).

Geological museum which probably is the largest and best equipped for any liberal-arts college in the country.

Laboratory equipment includes standard items and the following more specialized items:
- Mineral-separation equipment by magnetic, electrostatic, ultrasonic, panning, and heavy-liquid methods
- Spectrophotometer
- X-ray machine with electronic recorder
- Diamond saws up to 30 in. diameter
- Sedimentation tank 20 x 50 ft.
- Equipment for model experiments

Collections:
- Paleontological:
  - Extensive collection of invertebrate fossils.
  - Collection of dinosaur footprints which is now the largest one accessible in the world
  - Vertebrate fossils from North America and Patagonia; several thousand specimens including much type and locality material frequently consulted by specialists from other universities and musuems. Contains fish, amphibian, reptile, and mammal material.
- Mineralogical: excellent systematic collection including more than 1000 species, with type material from some localities.
- Ores: outstanding collection of rock and ore-mineral suites from mining localities throughout the world, including many specimens of unusual size, up to 3 square feet.
- Large structural specimens of marble and other rocks
- Maps:
  - Topographic: U. S. Geological Survey and Army Map Service collections.
  - Geologic: regional and national maps for North America and other continents.

Library: excellent departmental library, with particular emphasis on U. S. and Canadian periodicals, and German works on mineralogy, paleontology, and economic geology.

DEPARTMENTAL FACULTY:

George W. Bain, Samuel A. Hitchcock Professor

Training and degrees:

B. Sc., McGill University, 1921
A. M., Columbia, 1923
Ph. D., Columbia, 1927
Hon. A. M., Amherst, 1941

Professional experience:

Staff member, Canadian Geol. Surv., 1921-24
Asst. Prof., Vermont, 1925-26
Instr. to Prof., Amherst College, 1926 to date
Director, Pratt Museum, 1948 to date
Field geologist, McIntyre Porcupine Gold Mines, 1926
Consulting geologist, Vermont Marble Co., 1927-39
Chief geologist, Manhattan Eng. Dist., U. S. War Dept., 1944-46 (received Citation for Exceptional Civilian Service)
Consulting geologist, Phelps Dodge Corp., 1947-48.
Member Baruch Comm., Atomic Energy Comm., 1946

Membership in professional organizations:

Inst. Min. & Met. Eng.
Geol. Soc. Amer.
Society Economic Geol.
Mineralogical Soc.
Canadian Inst. Min. & Metal.

Subjects taught:

General geology
Regional geology
Mineral deposits
World resources

Research interests and activities:

Structural geology
Mineral deposits

Gerald P. Brophy, Assoc. Professor

Training:

A. B., Columbia, 1951
M. A., Columbia, 1953
Ph. D., Columbia, 1954

Professional Experience:

N.Y. ass't. state geologist, summers 1948-50
AEC contract geologist, 1951-54
AEC consulting geologist, summer 1954
Consulting geologist, N.Y. state, summer 1955
Consulting geologist, Kennecott Copper, summer 1956
Consulting geologist, R. I. Venderbilt, 9/1956
Consulting geologist, Kennecott Copper, 1956-57
Research Fellow, Univ. of Illinois, 1958
Visiting Asst. Research Prof., Penn State, summer 1959

Consulting geologist, Kennecott Copper, summer 1960

Membership in professional and honorary societies:
Mineralogical Soc. Amer.
Geological Soc. Amer.
Sigma Xi

Subjects taught:
General geology
Mineralogy
Petrology

Research interests:
X-ray crystallography
Economic geology

Anthony Reso, Asst. Professor

Training:
A. B., Columbia, 1954
M. A., Columbia, 1955
Ph. D., Rice Institute, 1960

Professional experience:
Fellow in Physics & Instructor in Geology, Queens College, 1954 (spring semester)
Asst. in geology, Columbia Univ., 1954-55
Geologist, Atlantic Refining Co., 1955-56
Asst. in geology, Univ. of Cincinnati, 1956-57
Graduate asst. & fellow, Rice Institute, 1957-59
NSF Fellow in geology, 1959
Asst. Professor, Amherst College, 1959 to date
Geological research consultant, Tenn. Gas & Oil Co., 1960

Membership in professional and honorary societies:
Sigma Xi
Sigma Gamma Epsilon
Geol. Soc. Amer.
Houston Geol. Soc.
Amer. Assoc. Petrol. Geol.
Paleontological Society
Soc. Economic Paleo. and Min.
Amer. Assoc. Adv. Sci.
Paleo. Research Institution

Subjects taught:
Historical geology
Sedimentation and stratigraphy
Invertebrate paleontology

Research interests and activities:
Stratigraphy of the central Cordilleran geosyncline

Albert E. Wood, Professor (Biology)

Training:
B. S., Princeton, 1930
M. A., Columbia, 1932
Ph. D., Columbia, 1935 (geology)

Professional experience:
Cutting traveling fellow in Europe, Canada, and U. S., 1934-35
Asst. geologist, U. S. Army Engineers, 1936-39
Assoc. geologist, U. S. Army Engineers, 1939-41
Geologist, U. S. Army Engineers, 1941, 1946
Asst. Prof. to Prof. (biology), Amherst, 1946 to date
Assoc. curator, vert. Paleo., Pratt Museum, 1948 to date
Member to director of paleontological expeditions

Membership in professional organizations:
Amer. Assoc. Adv. Sci.
Soc. Mammal.
Paleont. Soc.
Geol. Soc. Amer.
Soc. Zool.
Soc. Vert. Paleo. (currently President)
Soc. Study Evolution

Subjects taught:
Vertebrate paleontology

Research interests:
Rodent paleontology and evolution

FACULTY PUBLICATIONS AND REPORTS:

George W. Bain:

Magnesite deposits of Grenville, Quebec: Am. Inst. Min. and Met. Eng. Trans., vol. 69, 1923, p. 60-78; abstract, Mining and Metallurgy, vol. 4, 1923, p. 257.

Almandite and its significance in the contact zones of the Grenville limestone: Jour. Geology, vol. 31, 1923, p. 650-668.

Alluvial fan deposits in the Upper Huronian: Am. Jour. Sci., vol. 8, 1924, p. 54-60.

Types of magnesite deposits and their origin: Econ. Geology, vol. 19, 1924, p. 412-433.

Amount of assimilation by the Sudbury norite sheet: Jour. Geology, vol. 33, 1925, p. 509-525.

Pre-Keewatin sediments of the upper Harricana Basin, Quebec: Jour. Geology, vol. 33, 1925, p. 728-743.

Skeleton quartz crystals: Am. Mineralogist, vol. 10, 1925, p. 435-441.

Barraute area, Abitibi County, Quebec: Canada. Geol. Survey, Summ. Rept., 1926, p. 126.

Diffusion in Agate Point vitrophyres: Am. Jour. Sci., vol. 11, 1926, p. 74-88.

Resorption as an agent in freeing hematite from the Grenville granite magma: Canadian Inst. Min. and Met., Bull. 167, 1926, p. 379-392.

Agate Point rocks: Am. Jour. Sci., vol. 11, 1926, p. 364.

Evidence of assimilation and assimilation processes: Jour. Geology, vol. 34, 1926, p. 657-670.

Tectonics of original Huronian of Webbwood, Ontario: Pan-Am. Geologist, vol. 44, 1925, p. 95-120.

Source of original Huronian sediments: Pan-Am. Geologist, vol. 44, 1925, p. 187-198.

Is the Huronic Gowganda conglomerate of glacial origin?: Pan-Am. Geologist, vol. 44, 1925, p. 369-386.

Killarneyan intrusives of Sudbury: Pan-Am. Geologist, vol. 45, 1926, p. 109-124.

Chemistry of Killarneyan magma of Sudbury: Pan-Am. Geologist, vol. 45, 1926, p. 277-294.

Physiographic development of Canadian shield: Pan-Am. Geologist, vol. 46, 1926, p. 53-62 and p. 363-374.

Physiographic development of Canadian shield: Pan-Am. Geologist, vol. 47, 1927, p. 15-28.

Geology and problems of Webbwood area, Canada, Thesis, Columbia University: Contributions from the department of geology of Columbia University, vol. 36, 1927.

The geology and mineral deposits of the Harricanaw and Bell river basins: Canadian Min. and Met. Bull., no. 178, 1927, p. 201-247; discussion, no. 181, 1927, p. 594-603.

Huronian stromatoporoid-like masses: Pan-Am. Geologist, vol. 47, 1927, p. 281-284.

Geologic history of the Green Mountain front: Vermont, State Geologist, 15th Rept., 1927, p. 222-241.

Contact metamorphism and related changes in composition: Vermont, State Geologist, 15th Rept., 1927, p. 242-263.

The graphite deposits of Louisa, Quebec: Econ. Geology, vol. 24, 1929, p. 733-752.

Structure of gold-bearing quartz in northern Ontario and Quebec: Am. Inst. Min. and Met. Eng., Tech. Pub. 327, 1930, 44 pp.

Spontaneous rock expansion: Jour. Geology, vol. 39, 1931, p. 715-735; abstract, Geol. Soc. America, Bull., vol. 42, 1931, p. 236-237.

Flowage folding: Am. Jour. Sci., vol. 22, 1931, p. 503-530; abstract, Geol. Soc. America, Bull., vol. 42, 1931, p. 229; Pan-Am. Geologist, vol. 55, 1931, p. 315.

The northern area of Connecticut Valley Triassic: Am. Jour. Sci., vol. 23, 1932, p. 57-77.

Chrysotile asbestos; II, Chrysotile solutions: Econ. Geology, vol. 27, 1932, p. 281-296.

The Vermont marble belt: Internat. Geol. Cong., XVI, United States, Guidebook 1, Excursion A-1, 1933, p. 75-80.

Brandon to Bennington, Vermont: Internat. Geol. Cong., XVI, United States, Guidebook 1, Excursion A-1, 1933, p. 80-87.

(with C. R. Longwell) Amherst, Mass., to Hartford, Conn.: Internat. Geol. Cong., XVI, United States, Guidebook 1, Excursion A-1, 1933, p. 105-111.

Calcite marble: Econ. Geology, vol. 29, 1935, p. 121-139.

Land and sea on the Canadian Shield in pre-Cambrian time, H. C. Cooke: Am. Jour. Sci., vol. 27, 1934, p. 303-306.

Service of the surveys (abstract): Assoc. Am. State Geologists, Jour., vol. 5, 1934, p. 7-8.

Relieved and strained rock (abstract, with discussion): Geol. Soc. America, 1934, p. 62-64.

Serpentinization; origin of certain asbestos, talc, and soapstone deposits: Econ. Geology, vol. 29, 1934, p. 397-400.

Problems of serpentinization: Econ. Geology, vol. 29, 1934, p. 703.

Pyrite oxidation: Econ. Geology, vol. 30, 1935, p. 166-169.

Mining marble: Amer. Inst. Min. Met. Eng., Tech. Pub. 626, 1935, 18 p.

Mongolian magmas: Bull. Geol. Soc. Am., vol. 46, 1935, p. 1745-1814.

Petrology of marble: Mineralogist, vol. 4, (February) 1936, p. 3-4, 30-31; (March) 1936, p. 5-6, 36-37.

Mechanics of metasomatism: Econ. Geology, vol. 31, 1936, p. 505-526.

Preliminary report on the marble deposits of Canada Bay and White Bay, northern Newfoundland: Newfoundland Dept. Nat. Res. Geol. sec., 1936, 7 p.

Serpentinization of Vermont ultrabasics: Geol. Soc. America Bull., vol. 47, 1936, p. 1961-1979; abstract, Proc. 1935, 1936, p. 64.

Marble depostis of northern Newfoundland: Newfoundland Dept. Nat. Res. Geol. sec. Bull. 11, 1937, 43 p.

Roof of the Treasury Mountain granite (abstract): Geol. Soc. America Proc. 1936, 1937, p. 62-63.

Central Vermont Marble Belt, Guidebook, 34th Annual Field meeting, 1938, Rutland, Vermont. N. E. Intercollegiate Geological Association. Amherst College, Amherst, Mass.

Correlatives of the Grenville Series: Geol. Soc. America Bull., vol. 49, 1938, p. 1807-1827; abstract, p. 1929.

Central marble belt (abstract): Geol. Soc. America Bull., vol. 49, 1938, p. 1863-1864.

Spontaneous rock expansion (abstract): Geol. Soc. America Bull., vol. 49, 1938, p. 1864.

(Review of) Thetford, Disraeli, and eastern half of Warwick map-areas, Quebec, by Harold Caswell Cooke, with chapters by Thomas Henry Clark, 1937: Econ. Geol., vol. 34, 1939, p. 235-237.

Treasure Mountain intrusive (abstracts): Geol. Soc. America Bull., vol. 50, 1939; p. 1899; Pan-Am. Geol., vol. 73, 1940, p. 156.

Geological, chemical and physical problems in the marble industry: AIME, Tech. Pub. 1261, Mining Technology, vol. 4, 1940, 16 p.; Trans., vol. 144, 1941, p. 324-339.

The perspectograph: Econ. Geology, vol. 36, 1941, p. 71-83.

Measuring grain boundaries in crystalline rocks: Jour. Geol., vol. 49, 1941, p. 199-206.

The Holyoke Range and Connecticut Valley structure: Am. Jour. Sci., vol. 239, 1941, p. 261-275.

(with H. A. Meyerhoff) The flow of time in the Connecticut Valley, geological imprints: Hampshire Bookshop, Northampton, Mass., 1942, 129 p.

Vermont talc and asbestos deposits in Newhouse, W. H. ed., Ore deposits as related to structural features, 1942, p. 255-258.

Granitization in western New England (abstract): Geol. Soc. Am. Bull., vol. 51, 1940, p. 1989.

African rift valleys and American Triassic troughs (abstract): Geol. Soc. Am. Bull., vol. 52, 1941, p. 1889.

Geology of the Fissionable Materials; Econ. Geol., vol. 45, 1950, p. 273-323.

The geology, paragenesis, and reserves of the ores of lead and zinc: Econ. Geol. vol. 45, 1950, p. 588-590.

The age of the "Lower Cretaceous" from Bisbee, Arizona, Uraninite: Econ. Geol., vol. 47, 1952, p. 305-315.

Mapping Climatic Zones of the Geologic Past: Yale Scientific Mag., vol. 27, 1953.

(with John H. Beebe) Scale model reproduction of tension faults: Am. Jour. Sci., vol. 252, 1954, p. 745-754.

Concentration of brines and deposition of salts from sea water under frigid conditions: Discussion, Am. Jour. Sci., vol. 254, 1956, p. 758-760.

Granite origin and type of associated mineralization: XX Cong. Geol. Internacional, Resumenes de los Trabajos Presentados, Mexico, 1956.

Mapping climates of the geologic past: XX Cong. Geol. Internacional, Resumenes de los Trabajos Presentados, Mexico, 1956.

Discussion of Urano-Organic ores: Econ. Geol., vol. 52, 1957, p. 192-196.

Geology of the northern part-Connecticut Valley, Guidebook: 49th Meeting, N. E. Geol. Conf., 1957.
Possible permian climatic zonation and its application: Discussion, Am. Jour. Sci., vol. 256, p. 596-600.
Triassic age rift structure in eastern North America: Trans. N. Y. Acadm. of Sci. Ser. II, vol. 19, 1957, p. 489-502.
Patterns to ores in layered rocks: Econ. Geol., vol. 55, 1960, p. 695-731.
Mineral resource Areas: McGraw-Hill Encyclopedia of Science and Technology, 1960.
Climatic zones of the Paleozoic Era: Int. Geol. Con. XXI Session, Copenhagen, 1960.
Climates of the geologic past: in S. E. P. M. Symposium on "Polar Wandering and Continental Drift." In press.

United States Atomic Energy Comm. Reports:

Uranium in the Dirty Devil Shinarump Channel Deposit, RMO 66, June 1952.
Uranium deposits in southwestern Colorado plateau, RMO 982, August 1952.
Experimental simulation of plateau type uranium deposits, RMO 44, January 1953.
(with Hans Schreiber) Influences on migration of uranium and radioactivity, RME 3086, Jan. 1954.
Reconnaissance for uranium in the Phosphoria Formation, RME 3141, June 1956.

Gerald P. Brophy:

Preliminary report on the Papsy's Hope Prospect: USAEC RMO 833, 1951.
Preliminary memorandum on the Flat Tire Prospect, Marysvale, Utah: USAEC RMO 863, 1951.
(with P. F. Kerr, H. M. Dahl, J. Green, and L. E. Woolard) Geologic Guide to the Marysvale area: USAEC RMO 924, May 1952.
The La Veta Prospect near Marysvale, Utah: USAEC RME 3046, 1953.
Hydrous uranium molybdate in Marysvale (Utah) Ore (Umohoite, a new uranium mineral): USAEC RME 3046, 1953.
Geology and uranium mineralization in the Silica Hills area, Marysvale, Utah: Ph. D. dissertation, Univ. of Minn. Microfilm series, 1954.
(with P. F. Kerr, H. M. Dahl, J. Green, and L. E. Woolard) Marysvale, Utah, uranium area: Geol. Soc., Am., Special Paper 64, 1957.
Copper mineralization in the Catoctin formation of Virginia: Bull. Geol. Soc. Am., vol. 71, 1960, p. 1834.

Sulphate Studies I: Alunite-jarosite solid solution: Bull. Geol. Soc. Am., vol. 71, 1960, p. 1834-1835.
(with E. S. Scott, and R. A. Snellgrove) Sulphate Studies II: Solid solution between alunite and jarosite: In press, Am. Mineralogist.

Anthony Reso:

The Devonian system in the Pahranagat Range, Lincoln Co., Nevada: Bull. Geol. Soc. Am., vol. 70, 1959, p. 1249-1252.
Devonian reefs in the Pahranagat Range, southeastern Nevada: Bull. Geol. Soc. Am., vol. 70, 1959, p. 1661.
(with A. Dolgoff, J. J. W. Rogers, and C. Croneis) Tertiary volcanic stratigraphy in the Pahranagat Range, Nevada: Science, 1960.

Albert E. Wood:

Damsite surveying by seismograph: Eng. News-Record, vol. 124, 1940, p. 46-49.
The mammalian fauna of the White River Oligocene; Pt. 3, Lagomorpha: Am. Philos. Soc. Trans., vol. 28, 1940, p. 271-362.
Multiple banding of sediments deposited during a single season: Am. Jour. Sci., vol. 245, 1947, p. 304-312; abs., Geol. Soc. Am. Bull., vol. 57, 1946, p. 1245.
Miocene rodents from Florida: Harvard Coll. Mus. Comp. Zoology Bull., vol. 99, 1947, p. 489-494.
Rodents, a study in evolution: Evolution, vol. 1, 1947, p. 154-162.
Glacial stream diversion near Hornell, New York: Geol. Soc. Am. Bull., vol. 59, 1948, p. 1285-1306; abs., vol. 57, 1946, p. 1245.
Small mammals from the uppermost Eocene (Duchesnian) near Badwater, Wyoming: Jour. Paleontology, vol. 23, 1949, p. 556-565.
Early Tertiary rodents of the family Paramyidae (abs): Geol. Soc. Am. Bull., vol. 57, 1946, p. 1245.
Porcupines, paleogeography, and parallelism: Evolution, vol. 4, 1950, p. 87-98.
A new geomyid rodent from the Miocene of Montana: Carnegie Mus. Annals, vol. 31, 1950, p. 335-338.
Tooth-marks on bones of the Orleton Farms mastodon: Ohio Jour. Sci., vol. 52, 1952, p. 27-28.
(with John Ormsbee) Notes on mammals from the Upper Cretaceous Lance formation of Wyoming: Jour. Paleontology, vol. 28, 1954, p. 26-31.
Comments on the classification of rodents: Breviora, no. 41, 1954, 9 p.
(with D. R. Kelley) The Eocene mammals from the Lysite member, Wind River Formation of Wyoming: Jour. Paleo., vol. 28, 1954, p. 337-366.

A revised classification of the rodents: Jour. Mammalogy, vol. 36, 1955, p. 165-187.

Rodents from the lower Oligocene Yoder formation of Wyoming: Jour. Paleontology, vol. 29, 1955, p. 519-524.

(with C. C. Black) Variation and tooth-replacement in a Miocene mylagaulid rodent: Jour. Paleo., vol. 30, 1956, p. 672-684.

Mytonomys, a new genus of paramyid rodent from the upper Eocene: Jour. Paleo. vol. 30, 1956, p. 753-755.

EDUCATIONAL PROGRAM: A graduate program leading to the Master's degree was in effect at one time, but was discontinued owing to the small number of graduate students, which was considered inadequate to provide the type of atmosphere conducive to maximum effectiveness. The following courses, however, while offered for advanced undergraduates, are considered to be suitable also for graduate students:

"Soft Rock" group:
- 44. Sedimentation and stratigraphy
- 49. Invertebrate paleontology
- 55. Vertebrate paleontology

"Hard Rock" group:
- *24. Petrology
- 45. Mineral deposits
- 79A. Structural geology

Geography and Geology:
- *26-28. Regional geology and geography of the World
- 46. World resources.

*These are not terminal courses but require a very advanced level of inquiry.

RESOURCES AT MOUNT HOLYOKE COLLEGE:

DEPARTMENTAL FACILITIES:

Laboratories for the basic branches of geology

Standard laboratory equipment, with petrographic microscopes, two universal stages, ore microscopes, and polishing equipment.

Collections:
- Balk collection of hand specimens and thin sections keyed in with geologic maps for several quadrangles in western Massachusetts.
- Ore specimens from Leadville, San Juan Mts., Tintic, Homestake, Chihuahua, Flin-Flon and other mining districts, including many rare items.
- Pegmatite and other minerals from numerous localities, including many rare specimens.
- Hand specimens of Alpine rocks
- Meyerhoff collection of rocks and fossils from Virgin Islands
- Lochman-Balk collection of Cambrian and other trilobites
- Collection of beach sands from widely separated areas
- Tertiary and recent microfossils from Egypt and America
- Systematic paleontological collection
- Phosphate and fluorspar rocks and minerals
- Alkaline rocks from Mt. Royal, Quebec

Library: departmental library includes standard periodicals, survey publications, and reference works, with the Sederholon library on Scandinavian and pre-Cambrian geology as a special feature.

DEPARTMENTAL FACULTY:

John C. Haff, Professor

Training:
- A. B., Columbia, 1932
- M. A., Columbia, 1933
- Ph. D., Columbia, 1939

Professional experience:
- Cutting traveling fellow from Columbia to Innsbruck and Zurich, 1936-37
- Instructor, Wichita University, 1938-39
- Asst. Prof., Colo. School of Mines, 1939-47
- Assoc. Geol., U. S. Bureau of Reclamation, 1938-39, 1941-42, 1945-46
- Geologist, U. S. Geological Survey, 1942-43, 1948-50
- Geologist, Wyoming State Geol. Survey, 1944
- Consultant, U.S. Atomic Energy Comm., div. raw materials

Geologist, Mineral resources survey of Navajo and Hopi Indian Reservations, 1954
Fulbright research scholar, Innsbruck, 1956-57

Membership in professional and honorary societies:
Sigma Xi
Geological Society of America
Mineralogical Society of America
Amer. Assoc. Adv. Science

Subjects taught:
Physical geology
Mineralogy
Lithology
Economic geology
Structural Geology

Research interests and activities:
Petrofabric analysis
Economic geology

Althea Page Smith, Instructor (part-time to full-time)

Training:
B. A., Pembroke, 1928
M. S., Brown, 1930
Ph. D., Radcliffe, 1940

Professional experience:
Instructor, University of Vermont, 1930-31
Present position, 1960 to date

Membership in professional and honorary societies:
Sigma Xi
Phi Beta Kappa

Subjects taught:
General geology
Geomorphology
Paleontology

Research interests:
Petrology and structure of igneous intrusives
Geomorphology

FACULTY PUBLICATIONS AND REPORTS:

John C. Haff:

Crystallized native copper from Franklin, N. J.: Amer. Min., vol. 19, 1934, p. 480-482.

Igneous rock names and their evaluation: Amer. Min., vol. 21, 1936, p. 427-441.

Preparation of petrofabric diagrams: Amer. Min., vol. 23, 1938, p. 543-574.

Multiple dikes of Cape Neddick: Geol. Soc. Amer. Bull., vol. 50, 1939, p. 465-514.

Memorandum on the results of a petrographic study of the Keswick quartz-diorite.....: U. S. Bur. Rec. Petr. Lab. Rept. 20, 1938, 36 p.

Use of the Wulff net in mineral determination with the universal stage: Amer. Min., vol. 25, 1940, p. 689-707.

Determination of extinction angles in augite and hornblende with the universal stage according to the method of Conrad Burri: Amer. Jour. Sci., vol. 239, 1941, p. 489-492.
Preliminary petrographic study of certain rocks near the western terminus of the Continental Divide tunnel: U. S. Bur. Rec. Petr. Lab. Rept. 26, 1941, 28 p.
Contaminated complex dikes at Cape Neddick, Maine: Jour. Geol., vol. 49, 1941, p. 835-853.
Petrographic study of rocks from shear zone in the Continental Divide tunnel: U. S. Bur. Rec. Petr. Lab. Rept. 27, 1942, 23 p.
Petrographic examination of selected Cowlitz River gravel: U. S. Bur. Rec. Petr. Lab. Rept. 33, 1942, 7 p.
Fedorow method (universal stage) of indicatrix orientation: Colo. School Mines Quart., vol. 37, 1942, p. 2-28.
Petrology applied to aggregates for concrete: Colo. School Mines Quart., vol. 37, 1942, p. 39-48.
Alkaline vitrophyre dike, Cape Neddick, Maine: Amer. Min., vol. 28, 1943, p. 426-436.
Petrology of two clastic dikes from the Placerville district, Colo.: Amer. Jour. Sci., vol. 242, 1944, p. 204-217.
Features of geologic structure on the Blue River-South Platte Transmountain diversion line: Geol. Soc. Amer. Bull., vol. 57, 1946, p. 1199.
Chapters in: Mineral Resources, Navajo-Hopi Indian Reservations, Ariz.-Utah: Univ. Ariz, College Mines, 1955, 3 vols.

Althea Page Smith:

(with L. Kingsley and A. W. Quinn) Geology of the Mt. Chocoroa quadrangle, N. H.: N. H. State Plann. Devel. Comm., 1939, 24 p. and geol. map.
Perthite from central New Hampshire: Geol. Soc. Amer. Bull., vol. 51, 1940, p. 1946-1947.
Olivine and pyroxene of Mt. Tripyramid, N. H.: Amer. Min., vol. 26, 1941, p. 202-203.
(with H. T. U. Smith) Periglacial rock streams in the Blue Ridge area: Geol. Soc. Amer. Bull., vol. 56, 1945, p. 1198.

EDUCATIONAL PROGRAM: Provision for graduate work in geology has been in effect through the years, but has been restricted recently because of insufficient staff; the present program is directed primarily toward undergraduate instruction.

RESOURCES AT SMITH COLLEGE:

DEPARTMENTAL FACILITIES:

Laboratories for the basic branches of geology

Standard laboratory equipment, including microscopes, universal stage, X-ray machine and d'Orbigny models of foraminifera.

Collections:
- Paleontological:
  - Stratigraphic and lithologic suites of representative formations
  - Systematic collections of invertebrate fossils, with emphasis on microfossils
  - Some vertebrate fossils and paleobotanical material
- Maps:
  - Army Map Service set of topographic and base maps, world-wide.
  - U. S. Geological Survey topographic and geologic maps
  - State geologic maps
  - Geologic maps for numerous foreign countries

Library: departmental library contains standard periodicals and reference works, including many that are comparatively rare; unusually complete set of state geological survey publications; British and French literature well represented; literature on micropaleontology, with special reference to foraminifera, unusually complete.

DEPARTMENTAL FACULTY:

Caroline Heminway Kierstead, Assoc. Prof.
- Training:
  - A. B., Mt. Holyoke College, 1925
  - A. M., Cornell, 1928
  - Ph. D., University of Indiana, 1941
- Professional experience:
  - Instructor to Associate Prof., Smith College, 1928 to date.
  - Senior Paleontologist, Shell Oil Co., 1943-45.
- Membership in professional and honorary societies:
  - Sigma Xi
  - Paleontological Society
  - Amer. Assoc. Petroleum Geologists
  - Paleontological Research Institute
  - Amer. Assoc. Adv. Sci.
- Subjects taught:
  - Paleontology
  - Stratigraphy
  - Structural and field geology

Research interests and activities:
Tertiary and recent foraminifera
Paleontology of deep-sea cores
Revision of Galloway's Manual of Foraminifera

Marshall Schalk, Associate Professor
Training:
A. B., Harvard, 1929
A. M., Harvard, 1931
Ph. D., Harvard, 1936
Professional experience:
Humble Oil Co., 1929
Asst. geol., Moctezuma Copper Co., 1929-30
Hamman Exploration Co., 1931-32
Woods Hole Oceanographic Institute, 1933-34
Instructor, Smith College, 1934-36
Geologist, Gulf Oil Corp., 1936-41
Asst. Prof. to Assoc. Prof., Smith College, 1941 to date
Asst. to director, Woods Hole, 1946-47
Research assoc., Hydrographic Office, U. S. Navy, 1948
Research geologist on Arctic Institute of North America project in Alaska, 6 years, summers and sabbatical year.
Membership in professional societies:
Geol. Soc. Amer.
Amer. Geophysical Union
Assoc. College Geol. Teachers
Subjects taught:
General geology
Petroleum geology
Research interests and activities:
Coastal sedimentation
Oceanography

Helen Stobbe, Assoc. Prof.
Training:
A. B., Smith College, 1924
A. M., Columbia, 1931
Ph. D., Columbia, 1947
Professional experience:
Teacher of geol. and chem., Stuart Hall, Va., 1924-26
Geol. asst., Amerada Petroleum Corp., 1928-30
Curator, Smith College, 1930-32
Instructor to Assoc. Prof., Smith, 1932 to date
Membership in professional societies:
Geol. Soc. Amer.
Mineralogical Society
Amer. Assoc. Adv. Sci.
Subjects taught:
Economic geology
Mineralogy
Petrology

Research interests and activities:
Pegmatites
Igneous petrology

FACULTY PUBLICATIONS:

Caroline Kierstead:

(with J. J. Galloway) The Tertiary foraminifera of Puerto Rico: N. Y. Acad. Sci., Scient. Surv. of Puerto Rico and the Virgin Islands, vol. 3, pt. 4, 1941, p. 275-491.
Women in geology: Geol. Soc. Amer., Interim Proc., Pt. I, 1947, p. 66-69.
(with Rosalind Robinson) Foraminifera of a deep-sea core from the Ross Sea, Antarctica: Geol. Soc. Amer. Bull., vol. 63, 1952, p. 1271.
The Dry Brook Valley trip, in: Guidebook for Amherst meeting of the New Engl. Intercoll. Geol. Field Conf. - 49th Ann. Mtg., Amherst, Mass., 1957, 4 p.
Contributor on paleontologic terms to: Glossary of Geology and related sciences, edited by J. V. Howell, Amer. Geol. Inst., 1957, 325 p.

Marshall Schalk:

(with R. F. Collins) Torrential flood erosion in the Connecticut valley, March, 1936: Amer. Jour. Sci., vol. 34, 1937, p. 293-307.
A textural study of the outer beach of Cape Cod, Mass: Jour. Sed. Petrol., vol. 8, 1938, p. 41-52.
A study of textural changes in a beach by repeated samplings: Jour. Sed. Petrol., vol. 16, 1946, p. 43-51.
Submarine topography off Eleuthera Island, Bahamas: Geol. Soc. Amer. Bull., vol. 57, 1946, p. 1228.
A lecture demonstration of limestone solution and precipitation: Jour. Geol. Educ., vol. 4, 1956, p. 52.
Relation of arctic storms to shore-line changes at Point Barrow, Alaska: Geol. Soc. Amer. Bull., vol. 68, 1957, p. 1792.
Beach and near-shore studies, Point Barrow, Alaska, July 1954 - January 1957: Woods Hole Oceanographic Institution, 1957, 49 p.
Comparison of near shore bottom profiles of the Barrow area as compared with those to the southwest and east of Point Barrow (abstract): Ninth Alaskan Science Conference, Univ. of Alaska, 1958.
A light-weight bottom sampler for sand or gravel (abstract): Jour. Geophysical Research, 1960, p. 2521.
In preparation: report on six years' field studies at Point Barrow, Alaska.

Helen Stobbe:

A brief description of the pegmatites southwest of Custer, S. D.: Econ. Geol., vol. 32, 1937, p. 964-973.
Intrusive complex near Northampton, Mass.: Geol. Soc. Amer. Bull., vol. 49, 1938, p. 1960-1961.
The Ottawa Lowland Excursion: Geol. Soc. Amer. Proc., 1938, p. 233.
The Gatineau Excursion: Geol. Soc. Amer. Proc., 1938, p. 233-234.
Petrology of volcanic rocks of northeastern New Mexico: Geol. Soc. Amer. Bull., vol. 60, 1949, p. 1041-1095.
The Gillette quarry, Haddam Neck, Conn.: Rocks and Min., vol. 24, 1949, p. 496-502.
Dacites from Laughlin Peak, Colfax County, N. M.: Geol. Soc. Amer. Bull., vol. 60, 1949, p. 1922.
Porphyry intrusions in the Beartooth Range, near Red Lodge, Mont.: Geol. Soc. Amer. Bull., vol. 63, 1952, p. 1300.
(with E. G. Murray) A new occurrence of eucolite near Wausau, Marathon County, Wis.: Amer. Min., vol. 41, 1956, p. 932-935.
(with others) The Triassic Stratigraphic Section: Guidebook, Geology of Northern Part-Connecticut Valley, N. Eng. Geol. Conf., 1957, p. 34-38.
Feldspar relationships in monzonite porphyries near Red Lodge, Montana (abstract): Inter. Geol. Cong., Report of the 21st Session, Norden, Copenhagen, 1960, p. 121-122.

PRESENT GRADUATE PROGRAM: A graduate program leading to the Master's degree has been in effect for more than thirty years, and numerous degrees have been awarded. Courses offered are as follows:

Courses open only to graduate students:
50. Research and thesis
51. Individual problems in geology or geography.
52. Paleontology or stratigraphy.
53. Physiography
54. Structural geology
55. Crystallography, mineralogy, petrology or gemology
57. Petroleum geology

Courses open to graduates and advanced undergraduates:
41. Special studies in geology or geography
46. Micropaleontology.

RESOURCES AT THE UNIVERSITY:

PRESENT DEPARTMENTAL FACILITIES:

Space: The department now has approximately 20,700 square feet of sloor space in section 3 of Morrill Hall, including the following: Office space for 2 secretaries, 8 faculty members, and 18 graduate students.

Laboratories for the following subjects:
- Physical geology
- Historical geology
- Mineralogy
- Petrology - economic geology
- Geomorphology - photogeology
- Paleontology - stratigraphy
- Sedimentation
- Geophysics - structural geology
- X-ray studies

General utility rooms for:
- Storage of maps and collections
- Drafting
- Cutting, grinding, and polishing of specimens
- Photographic work of all types
- Wood and metal working for production of experimental equipment

Equipment:

Standard equipment, typical of geology department in general:
- Binocular microscopes, with mechanical stages and other accessories
- Petrographic microscopes with universal stage, integrating stage, and other accessories
- Ore microscopes for polished sections
- Abbe refractometer
- Metallograph for photomicorgraphy
- Equipment for preparing thin sections and polished sections of rocks and minerals
- Screens and shaker for mechanical analysis
- Centrifuge
- Sample splitters
- Isodynamic magnetic mineral separator
- X-ray machine with powder camera
- Differential thermal analysis unit (on order)
- Calculating machine
- Dip needle
- Magnetometer
- Telescopic alidades and plane table outfits
- Brunton compasses, hand levels, and other minor field equipment
- Altimeters
- Portable rock drill
- Lathe, drill, power saw, and other shop equipment

Standard drafting equipment, including pantograph, drafting arms, light table, Kail enlarging-reducing projector, etc.
Mimeographing, duplicating, copying, and ozalid machines

Special equipment: the collection of photogrammetric instruments, including stereoscopes, vertical and oblique sketchmasters, stereocomparagraphs, stereotope, multiscope, template cutter, metal templates, Kail radial-line plotter, slope comparator, etc. is believed to be the most extensive in any geology department in the New England area.

Other available equipment outside of the geology department:
Electron microscope
IBM 1620 electronic computer

Collections:

Mineralogical, petrologic, paleontological, and economic materials: excellent collections in these categories include the historic Hitchcock collection of Massachusetts rocks and minerals, the Fitts collection of minerals, various sets of rocks, ores, and economic minerals from many parts of the U. S. and other countries, and representative fossils for the entire geologic time scale.

Maps: Topographic and geologic maps for all parts of the U. S. are on file, together with many for other parts of North America and for other continents.

Air photos: the collection of air photos is believed to be the largest in any geology department east of Illinois, and includes representative geologic and topographic features from nearly all continents.

Library: The departmental library contains U. S. Geological Survey publications, standard American periodicals, some European periodicals, some state survey and Canadian survey publications, and standard reference works. It is supplemented by the Hampshire Inter-Library Center, on campus, and by inter-library loan services. For specialized topics, the Harvard library, one of the finest in the U. S., is within commuting distance.

DEPARTMENTAL FACULTY (as of September, 1961):

Graduate faculty:

H. T. U. Smith, Department Head:
Training:
B. S., Wooster College, 1930

M. A., Harvard, 1933
Ph. D., Harvard, 1936

Professional experience:

Austin Teaching Fellow, Harvard, 1931-35
Instructor to Assoc. Professor, Univ. of Kansas, 1935-43, 1946-56.
Geologist, Kansas State Geological Surv., summers, 1936-41
Geologist, Imperial Oil Ltd., summer, 1943
Geologist, U. S. Geological Survey (Military Geology Branch), 1943-46
Consultant on photo interpretation, Research and Development Board, U. S. Defense Dept., 1953
Consultant on photo interpretation, U. S. Forest Service, 1953-56
Present position, 1956 to date

Membership in professional and honorary societies:

Phi Beta Kappa
Sigma Xi
Phi Kappa Phi
Geol. Soc. America
Amer. Soc. Photogrammetry - served as second vice president, panel member and chairman at annual meetings, organizer and editor of symposia, and chairman of photo interpretation committee.
Amer. Assoc. Adv. Sci.
Arctic Inst. North America
Assoc. Amer. Geographers
Instituto Italiano di Paleontologia Umano - honorary corresponding member
Amer. Assoc. Petrol. Geologists
Assoc. Coll. Geol. Teachers
Boston Geol. Soc.

Other professional activities:

Member, editorial board of Quaternaria
Inter. Geol. Cong. - participated in meetings of 1952 in Algiers, 1956 in Mexico, and 1960 in Denmark.
Inter. Geographical Cong. - participated in meetings of 1952 in Washington, D. C., and 1960 in Sweden.
Cong. Inter. Assoc. Quaternary Res. - participated in 1953 meeting in Italy, and 1957 meeting in Spain; appointed by National Academy of Science as member of official U. S. delegation to 1961 meeting in Poland.
National Research Council:
Member, Committee on Inter-relations of Pleistocene Research, 1947-49.
Co-chairman, Committee for Study of Eolian Deposits, 1948-52.
Member, Earth Sci. Division, 1956-59.

Currently member of Executive Committee of the U. S. Committee for the International Quaternary Association.

Subjects taught:
Geomorphology
Photogeology

Research interests and activities:
Use of air photo interpretation as a geologic research technique.
Studies on periglacial cryopedologic phenomena.
Studies on sand dunes and related features in the coastal desert of Peru.
Preparation of a monographic treatment of Eolian Geology.
Geomorphic studies on the N. England coast.

Research grants and contracts:
Grant from Geol. Soc. Amer. to study periglacial features in southern Wisconsin, 1942.
Three contracts with Office of Naval Research, 1949-60, totaling approximately $42,500, for studying sand dunes.

Oswald C. Farquhar, Professor:

Training:
B. A., Oxford University, 1947, with first-class honors.
M. A., Oxford University, 1948.
Ph. D., Aberdeen University, Scotland, 1951.

Professional experience:
Coal exploration in England, 1947-47.
Summer work on military engineering, 1948, 1953.
Studies on metamorphic rocks in Great Britain, 1950-53.
Geological survey of an area in northeast Africa, 1952.
Lecturer at Aberdeen University, 1948-53.
Assistant Professor, Univ. of Kansas, 1953-1957.
Assoc. Professor, Univ. of Mass., 1957-61.
Professor, Univ. of Mass., 1961--.
Visiting lecturer, Univ. of Calif., summer session, 1955.
Consultant and field exploration geologist for mining companies in Canada, 1957, 1959.

Membership in professional and honorary societies:
Geol. Soc. Amer.
Amer. Assoc. Petrol. Geologists
Geologists' Assoc. of Great Britain
Geol. Soc. London
Sigma Xi

Other professional activities:
Inter. Geol. Cong. - participated in 1948 meeting in London and 1960 meeting in Denmark.
Participation in meetings of Prospectors' and Developers' Assoc. of Canada.
Meetings of N. Y. State Geologists Field Conference.
Meetings of N. England Intercoll. Geol. Field Conference.
Subjects taught:
Structural geology
Igenous and metamorphic petrology
Engineering geology
Economic geology of the metals and non-metals.
Research interests and activities:
Regional geology of western Massachusetts
Engineering geology of the N. England area
World-wide occurrence of asbestos
Special laboratory techniques in the geo-sciences
Occurrence and utilization of industrial rocks, minerals, and ores

Ward S. Motts, Associate Professor:
Training:
B. A., Columbia, 1949.
M. S., Univ. of Minnesota, 1951.
Ph. D., Univ. of Illinois, 1957.
Professional experience:
Mining geologist, Mexico, summer, 1949.
Engineering and ground-water geologist, U. S. Bureau of Reclamation, Calif., 1951-53.
Ground-water geologist, U. S. Geol. Surv., New Mexico, 1953-60.
Geologist, Oklahoma Geol. Surv., and Assoc. Prof., Univ. of Oklahoma, 1960-61.
Present position starting Sept., 1961.
Membership in professional and honorary societies:
Geol. Soc. Amer.
Sigma Xi
Roswell Geol. Soc.
Oklahoma City Geol. Soc.
Subjects to be taught:
Ground-water geology
Sedimentology
Pleistocene Geology
Regional geomorphology
Evolution of geologic concepts
Research interests and activities:
Quality of ground water as influenced by geologic and hydorlogic factors.
Occurrence of ground water in relation to Pleistocene geology.

George E. McGill, Assistant Professor:

Training:

B. A., Carleton College, cum laude, 1953.
M. S., Univ. of Minnesota, 1955.
Ph. D., Princeton, 1958 (NSF pre-doctoral Fellow during terminal year)

Professional experience:

Work for mining companies, summers, 1952-53.
Part-time laboratory instructor in geology at Minnesota and Princeton, 1954-56.
Curatorial assistant, Princeton, 1956-57.
Stratigraphic and structural studies in Montana for Shell Oil Co., and Montana Bureau of Mines, summers, 1954-57.
Instructor in field geology, Red Lodge field camp, summers, 1958-61.
Present position, 1958 to date.

Membership in professional and honorary societies:

Phi Beta Kappa
Sigma Xi
Geol. Soc. Amer.
Yellowstone-Beartooth Research Assoc. - currently serving as secretary.

Subjects taught:

Advanced structural geology
Regional geology
Field geology
Physical geology

Research interests and activities:

Geology of New England
Mechanics of structures in the Montana Rockys
Experimental high-pressure studies on rock deformation

Research grants:

National Science Foundation grant for studies in Montana on a three-year basis, approximately $10,000.
Application made for a grant from the Research Corporation for experimental studies.

Gregory W. Webb, Assistant Professor:

Training:

B. A., Columbia, 1948.
M. A., Columbia, 1950.
Ph. D., Columbia, 1954.

Professional experience:

Lecturer in geology, Columbia, 1949-50.
Assistant in geology, Columbia, 1950-51.
Instructor in geology, Rutgers, 1951-52.
Geologist and geophysicist, Standard Oil Company of Calif., 1952-56.
Instructor to Assistant Prof., Amherst College, 1956-59.

Present position, 1959 to date
Membership in professional and honorary societies:
Sigma Xi
Geol. Soc. Amer.
Amer. Assoc. Petrol. Geologists
Amer. Geophysical Union
Subjects taught and to be taught:
Sedimentation
Stratigraphy
Petroleum geology
Cenozoic geology
Marine geology
Research interests and activities:
Rift faults and associated structures
Palinspactic maps
Experimental studies of turbidity currents
Structural geology of New Brunswick

Undergraduate faculty - offering some courses open to graduate students:

Warren I. Johansson, Assistant Professor:
Training:
B. S., Univ. of Mass., 1947.
M. S., Univ. of Mass., 1948.
Ph. D. (biology), Univ. of Mass., 1955.
Professional experience:
Instructor to Assistant Prof., Univ. of Mass., 1948 to date.
Geologist, Vermont Geol. Surv., summers, 1956-59.
Membership in professional and honorary societies:
Sigma Xi
Soc. Econ. Paleontologists & Mineralogists
Subjects taught:
Historical geology
Invertebrate paleontology and micropaleon.
Research interests and activities:
Micropaleontology

Albert B. Nelson, Assistant Professor:
Training:
B. S., Colby College, 1933.
M. S., Middlebury College, 1935.
Ph. D. expected, in chemistry, Univ. of Mass., 1962.
Professional experience:
Teaching Fellow, Middlebury College, 1933-35
Instructor to Asst. Prof., Univ. of R. I., 1935-46.
Teaching Fellow, Univ. of Mass., 1946-47.
Present position, 1947 to date.
Membership in professional and honorary societies:
Sigma Xi
American Chemical Society

Subjects taught:
Mineralogy
Optical mineralogy
Geochemistry
Research interests:
Geochemical methods

Thomas E. Rice, Instructor:
Training:
B. S., Univ. of Mass., 1953.
Professional experience:
Production engineer, F. W. Sicles, Div. of General Instrument Corp., 1948-49; part-time, 1949-53.
Part-time instructor, Univ. Mass., 1953.
Present position, 1954 to date.
Membership in professional organizations:
American Geophysical Union
Association of Coll. Geology Teachers
Subjects taught:
Physical geology
Geophysics

STAFF PUBLICATIONS AND REPORTS:

H. T. U. Smith:

Books and equivalent:

Geological studies in southwestern Kansas: Kans. Geol. Surv. Bull. 34, 1940, 212 p. plus 30 pl.
Aerial photographs and their applications: Appleton-Century-Crofts, New York, 1943, 372 p. (now being completely revised).
(with James Thorp and others) Pleistocene eolian deposits of the U. S., Alaska, and parts of Canada: wall map, in color, on scale of 1:2,500,000; prepared under auspices of National Research Council and published by Geological Society of America, 1952.

Contributions to standard reference works:

Definitions of terms relating to eolian geology, in: Glossary of Geology and Related Sci., edited by J. V. Howell, Amer. Gol. Inst., Washington, D. C., 1957.
The winds at work, in: The Book of Popular Science, the Grolier Society, N. Y., vol. 7, p. 2856-2864, 1958.
Wind erosion and deposition, in: Encyclopedia Britannica, vol. 23, p. 649-652, 1960.
Aerial photograph, in: McGraw-Hill Encyclopedia of Science and Technology, vol. 1, p. 82-84, 1960.

Articles on various geomorphic topics, in: The Grolier Encyclopedia (in press).

Articles and reviews:

(with Kirk Bryan and A. B. Cleaves) The present status of the Appalachian problem: Zeit. f. Geom., Bd. 7, 1932/33, 10 p.

(with H. J. Fraser) Loess in the vicinity of Boston, Mass.; Amer. Jour. Sci., vol. 30, 1935, p. 16-32.

Periglacial landslide topography of Canjilon Divide, Rio Arriba County, New Mexico: Jour. Geol., vol. 44, 1936, p. 836-860.

Simplified graphic method of determining approximate axial angle from refractive indices of biaxial minerals: Amer. Min., vol. 22, 1937, p. 675-681.

Pleistocene ventifacts in western Kansas: Geol. Soc. Amer., Proc., for 1937, p. 114.

Preliminary notes on Pleistocene gravels in southwestern Kansas: Trans. Kans. Acad. Sci., vol. 40, 1937, p. 283-291.

Physiography of the lower Chama valley, New Mexico: Geol. Soc. Amer., Proc. for 1937, p. 315.

Tertirary geology of the Abiquiu quadrangle, New Mexico: Jour. Geol., vol. 46, 1938, p. 933-965.

(with J. H. Lane, Jr.) Graphic method of determining optic sign and true axial angle from refractive indices of biaxial minerals: Amer. Min., vol. 23, 1938, p. 457-460.

Geomorphic evidence relating to the antiquity of man in north-central Kansas: Geol. Soc. Amer., Bull., vol. 49, 1938, p. 1901.

Sand dune cycle in western Kansas: Geol. Soc. Amer. Bull., vol. 50, 1939, p. 1934-1935.

Mounting and remounting detrital mineral grains on slides: Amer. Min., vol. 24, 1939, p. 602-604.

Notes on historic changes in stream courses of western Kansas: Trans. Kans. Acad. Sci., vol. 43, 1940, p. 299-300.

Preliminary report on a proposed Sand Dunes State Monument: Trans. Kans. Acad. Sci., vol. 43, 1940, p. 307-308.

Dune form and wind direction along southern shore of Lake Michigan: Geol. Soc. Amer. Bull., vol. 51, 1940, p. 1947.

Review: "A tentative classification of sand dunes...", by F. A. Melton: Jour. Geomorph., vol. 3, 1940, p. 359-361.

(with L. L. Ray) Southernmost glaciated peak in the U.S.: Science, vol. 93, 1941, p. 209; reprinted in Conservation, vol. 7, 1941, p. 45.

Improved method of handling microfilm copy: Bull. Amer. Assoc. Petrol. Geol., vol. 25, 1941, p. 2068-2070.

Review: "Dunes of the western Navajo Country", by J. T. Hack: Jour. Geomorph., vol. 4, 1941, p. 250-252.

Aerial photographs in geomorphic studies: Jour. Geomorph., vol. 4, 1941, p. 171-205; reprinted in Photogram. Eng., vol. 8, 1942, p. 129-155, and in "Manual of Photogrammetry", 1st ed., 1944, p. 728-748.

(with J. C. Frye) Preliminary observations on pediment-like slopes in the central High Plains: Jour. Geomorph., vol. 5, 1942, p. 215-221.

Sand dune stratification: Geol. Soc. Amer. Bull., vol. 54, 1942, p. 1852.

Aids in teaching photogrammetry: Photogram. Eng., vol. 9, 1943, p. 167-171; reprinted in "Manual of Photogrammetry", 1st ed., N. Y., 1944, p. 763-772.

(with H. J. Peterson) The camera lucida as an aid in aerial photographic mapping: Military Eng., 1943, p. 410-411.

Review: "The Physics of blown sand and desert dunes", by R. A. Bagnold: Geog. Rev., vol. 33, 1943, p. 170-172.

Notes on current literature: Photogram Eng., vol. 9, 1943, p. 160, 213.

Erosional modification of landmarks in western Kansas during historic time: Univ. Kans. Sci. Bull., vol. 30, 1944, p. 3-13.

(with Althea Page Smith) Periglacial rock streams in the Blue Ridge area: Geol. Soc. Amer. Bull., vol. 56, 1945, p. 1198.

Notes on recent literature: Photogram. Eng., vol. 11, 1945, p. 312-313.

A graphic method of measuring vertical angles from oblique photos: Photogram Eng., vol. 12, 1946, p. 147-150.

Sand dunes: Trans. N. Y. Acad. Sci., vol. 8 (ser. II), 1946, p. 197-199.

Drainage evolution in the Central High Plains: Geol. Soc. Amer. Bull., vol. 57, 1946, p. 1232.

Notes on recent literature: Photogram. Eng., vol. 12, 1946, p. 246.

Aerial photos in geologic training: Geol. Soc. Amer. Inter. Proc., Mar., 1947, p. 2-7.

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Giant composite barchans of the northern Peruvian deserts: Bull. Geol. Soc. Amer., vol. 67, 1956, p. 1735.

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Report of the photo-interpretation committee, American Society of Photogrammetry: Photogram. Eng., vol. 25, 1959, p. 307-308.

(with Curtis Messinger) Sand dunes and shoreline history in the Provincetown area, Cape Cod, Mass.: Bull. Geol. Soc. Amer., vol. 70, 1959, p. 1677.

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Reports of limited distribution:

Geology of the lower Hanna River area, NWT, Canada (submitted to Imperial Oil Ltd., 1943, as a part of geological investigations on the Canal Project): on file in U. S. Geological Survey library, Washington, D. C.

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Photo-interpretation studies in the Sand Hills of western Nebraska: Final report on Naval Research Contract N9onr 86800, 49 p., plus 38 fig. and 7 pl. (mimeographed), Lawrence, Kansas, 1951.

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(with H. H. Read) The geology of the Arnage district, Aberdeenshire, a reinterpretation: Quart. Jour. Geol. Soc. London, vol. 107, 1951, p. 423-440.

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Unpublished reports:

Various reports at Command and Wing levels on operations, communications, and administration: Royal Air Force Transport Command, 1941-45.

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Contribution to "Paleomagnetism of the younger gabbros of Aberdeenshire and its bearing on their deformation," by D. J. Blundell and H. H. Read, in: Proc. Geol. Assoc., vol. 69, 1958.

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Ward S. Motts:

Published works:

The occurrence and movement of groundwater in part of the Capitan reef complex, southeastern New Mexico: Geol. Soc. Amer. Bull., vol. 69, 1958, p. 1738.

Caliche genesis and rainfall in the Pecos valley area of southeastern New Mexico: Geol. Soc. Amer. Bull., vol. 69, 1958, p. 1737.

Geomorphology of the east side of the Sacramento Mountains: Guidebook for Joint Field Conf., Permian Basin Section, Soc., Econ. Paleont. and Min., and Roswell Geol. Soc., 1959, p. 223-233.

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Relation of structure and geomorphology to occurrence of ground water on the east slope of the Sacramento Mountains, N. M.: Program SW Regional Mtg., Amer. Assoc. Petrol. Geol., Lubbock, Tex., 1959, p. 22.

(with R. A. Gaal) Geology of the Pajarito Mountain area, Otero County, N. M.: Amer. Assoc. Petrol. Geol. Bull., vol. 44, 1960, p. 108-110.

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Contributor to: Red Bluff diversion site seepage investigation: U. S. Bur. Recl., Region 2, 20 p., 1953.

Contributor to: Geology and ground-water studies of the Tehama-Colusa Canal Service area, U. S. Bur. Recl., Region 2, 1954.

(with L. J. Bjorklund) Geology and water resources of the Carlsbad area, N. M.: N. M. St. Eng. open-file report, 322 p., 1959 (to be published as a U. S. Geol. Surv. Water Supply Paper).

(with R. A. Gaal) Investigation of a well site in ..... Lincoln National Forest, Otero County, N. M.: U. S. Geol. Survey, Ground-water Branch, 1958, 16 p.

Recharge study of the Roswell basin, N. M.: U.S. Geol. Surv., Ground-water branch, 1960, 257 p.

(with G. A. Dinwiddie) Availability of irrigation supplies for the Acoma and Laguna Indian Reservations, N. M.: U. S. Geol. Surv., 1960, 50 p.

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Manuscripts in preparation:

Mechanics of solution in evaporites of the Pecos Valley, N. M.

Relation of ground-water movement to lithofacies in rocks of the Guadalupian series.

Geomorphic evolution of southeastern New Mexico.

George E. McGill:

(with H. D. Holland, R. B. Curtiss, and J. A. Peterson) The use of leachable uranium in geochemical prospecting on the Colorado Plateau.....: Econ. Geol., vol. 52, 1957, p. 546-569.

Structure of the northwest flank of the Flint Creek Range, Granite County, western Mont.: Geol. Soc. Amer. Bull., vol. 69, 1958, p. 1612.

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Geologic map of the northwest flank of the Flint Creek Range, western Mont., with accompanying text: Mont. Bur. Mines & Geol., Geol. Investig. Map No. 3, 1959.

Gregory W. Webb:

(with L. F. Hintze) Ordovician stratigraphy from central Utah to central Nevada: Geol. Soc. Amer. Bull., vol. 61, 1950, p. 1524.

Middle Ordivician detailed stratigraphic sections for western Utah and eastern Nevada: Utah Geol. and Min. Surv. Bull. 57, 1956, 77 p.

Palinspastic maps of south-central Calif. and a newly discovered segment of the San Andreas rift: Geol. Soc. Amer. Bull., vol. 68, 1957, p. 1810.

Middle Ordovician stratigraphy in eastern Nevada and western Utah: Bull. Amer. Assoc. Petrol. Geol., vol. 42, 1958, p. 2335-2377.

PRESENT GRADUATE PROGRAM (leading to the Master's Degree):

Courses offered:

Courses open to graduate students only:

200. Special problems (research or independent study)
201. Optical mineralogy
203. Igneous petrology
205. Sedimentary petrology
206. Metamorphic petrology
212. Sedimentation
213. Geophysics.
214. Petroleum geology
216. Metalliferous economic geology
217. Non-metalliferous economic geology
218. Ground-water geology
220. Stratigraphic paleontology
221. Animal micropaleontology
228. Map interpretation
230. Advanced geomorphology
234. Regional geology of North America
235. Appalachian geology
236. Advanced structural geology
238. Advanced photogeology
241. Seminar
250. Geochemistry
300. Master's thesis

Courses open to graduate and undergraduate students:

178. Principles of stratigraphy
189. Geomorphology
191. Photogeology
194. Pleistocene geology

Courses in other dept. available for graduate credit:

Agronomy 157. Soil formation

Geology 55 (Amherst College). Vertebrate paleontology
Botany 180. Plant ecology
Botany 190. Palynology
Chemistry 165, 166. Physical chemistry
Chemistry 184, Radiochemistry
Chemistry 186. Theoretical inorganic chemistry
Chemistry 187. Inorganic chemistry of the common elements
Civil Engineering 180. Soil mechamics
Entomology 212. Geographical distribution of plants and animals
Zoology 153. Principles of genetics
Xoology 170. Invertebrate zoology
Zoology 174. Limnology

Lecture Program: Course work is supplemented by a lecture program carried out in cooperation with the other three colleges in the valley. Distinguished geologists, both American and European, are brought to the campus to present recent advances in special fields, and to participate in informal discussions with staff and graduate students. During the past year, the following were included in the program:

Prof. Fred A. Donath, Columbia University
Prof. John C. Maxwell, Princeton University
Dr. L. L. Nettleton, Gravity Meter Exploration Co.
Mr. Timothy J. Hunt, Loomis-Sayles & Co.
Dr. W. V. Lewis, Cambridge University (England)
Prof. George Kiersch, Cornell University
Prof. Bruce C. Heezen, Lamont Geophysical Observatory, Columbia University.

Field Program: Classroom and laboratory instruction are complemented by an extensive program of field trips to places of geologic significance in the northeastern U. S. During the summer, students are encouraged to engage in field geology, and it is required that Master's theses be based at least in part on field studies.

Departmental requirements for the M. S. degree (in addition to general requirements of the Graduate School):

1. A placement examination for new graduate students.
2. A minimum of 60 credits in geology, including both undergraduate and graduate courses.
3. Basic courses in mathematics, physics, chemistry, and biologic science.
4. At least 6 weeks of training in field geology.
5. A thesis based at least in part on field studies, and representing an original contribution to geologic knowledge.
6. A qualifying examination covering all basic fields of geology, taken at least one semester before the expected completion date of the thesis.

Theses Submitted and degrees awarded (in chronologic order; chairman of thesis committee noted in parentheses):

Henry S. Saulnier, The Paleopalynology of the Fort Union Coals of Red Lodge, Montana, 1950 (Wilson).

Herbert T. Ames, Plant Microfossils in a Colorado Cretaceous Coal, 1951 (Wilson).

Raymond Malloy, Carboniferous Plant Spores of the No. 40 Brine Seam, Joggins, Nova Scotai, 1951 (Wilson).

Nestor Nicholeris, A Plant Microfossil Investigation of Three Nova Scotian Coal Seams, 1951 (Wilson).

William F. Berry, A Descriptive Study of Crinoid Columnals from the Hamilton Group of New York, 1952 (Wilson).

Robert A. Rotan, Jr., Organic Residue Study of Lower Paleozoic Rocks, 1952 (Wilson).

Wallace Waloweek, Plant Microfossil Studies of Three Coal Seams Near Joggins, Nova Scotia, 1952 (Wilson).

Alan C. Donaldson, A Micropaleontological Study of the Vicksburge Formation from Five Texas Wells, 1953 (Wilson).

Russell R. Dutcher, Certain Tectonic & Petrographic Relationships of the Ashley Falls, Mass. & Conn. Quadrangle, 1953 (M. Light).

James F. Shea, Jr., Geology of the Ware Quadrangle, Massachusetts, 1953 (M. Light).

Arthur LeBlanc, A Microfossil Study of Brackish and Marine Sediments near Rockport, Texas, 1954, (Wilson).

John Fisher, The Hystrichosphaerids in the Clinton Group (Silurian) of New York State, 1955 (Wilson).

Cynthia W. Percy, A Petrographic and Field Study of the Belchertown Tonalite, 1955 (Nelson).

Nelson J. Sarris, Contributions to the Stratigraphy and Lithology of the Triassic Sedimentary rocks in the Conn. Valley of Massachusetts, 1955 (Wilson).

Norman K. Erickson, Hystrichosphaerids of the Devonian Onondaga Formation, Welland County, Ontario, Canada, 1956 (Wilson).

Robert B. Hulsman, The Hystrichosphaerids of the Onondaga Formation Devonian of Eastern New York, 1956 (Wilson).

Eugene J. Tynan, Silicoflagellates of the Calvert Formation (Miocene) of Maryland, 1956 (Wilson).

Curtis Messinger, A Geomorphic study of the Dunes of the Provincetown Peninsula, Cape Cod, Massachusetts, 1958 (Smith).

Allen E. Andersen, Jr., Bedrock Geology of part of the Goshen Quadrangle, Massachusetts, 1959 (Farquhar).

Donald A. Parks, Heavy Mineral Analysis of the Cretaceous Red Bank Formation of New Jersey, 1959 (Webb).

Andre R. Tetreault, Bedrock Geology of the western half of the Westhampton Quadrangle, Massachusetts, 1959 (McGill).

Peter C. Bazakas, The Bedrock Geology of Easthampton Quadrangle, Massachusetts, 1960 (Farquhar).

Lawrence P. Beer, Geology of the Thompson Lakes NW 15-Minute Quadrangle, Northwest Montana, 1960 (McGill).

Bruce H. DeWyk, Bedrock Geology of the northern half of the Southbury Quadrangle, Connecticut, 1960 (Farquhar).

Kim Fitzgerald, Bedrock Geology of the western half of the Royalston Quadrangle, Massachusetts, 1960 (McGill).

Charles I. Frye, Glacial and Post-glacial Erosion of Franconia Notch, New Hampshire, 1960 (Smith).

James L. Ruhle, The Mt. Laurel-Wenonah Formation of New Jersey, 1960 (Farquhar).

Raymond Pestrong, Bedrock Geology of the southern half of the East Lee Quadrangle, Massachusetts, 1961 (Farquhar).

Financial aid to students:

Academic year: during the academic year, graduate students have been aided by Teaching Fellowships, Departmental Fellowships, Teaching Associateships, and by an Office of Naval Research contract.

Summer: summer field work has been aided by:

Sigma Xi grants
Montana Bureau of Mines
Office of Naval Research contract
National Science Foundation grant available to aid qualified persons.

Enrollment and applications: The number of graduate students enrolled increased from 3 in Sept., 1956, to 11 in Sept., 1960; 13 are expected in Sept. of this year. Along with the increase in numbers has been a marked broadening of academic and geographic distribution, with students drawn from such well-known colleges as Dartmouth, Brown, Harvard, and Amherst. The number of students applying for admission was roughly double the number of those accepted.

Placement of students:

Of the 11 students who have received the M. S. degree since 1957, placement has been as follows:

Junior College teaching - 1
State geological survey work - 1
Petroleum exploration - 1
Fellowships for doctorate studies - 3 (at Stanford, University of California at Los Angeles, and University of North Dakota)
Mining geology - 2 (a third was offered a position, but declined)

Ground-water geology - 1
Business - 2

One student who expects to complete work for the degree during the present summer has received a Fellowship at the University of Texas.

Other students who did not complete requirements for the degree have received positions in secondary school teaching (both private and public), and with the U. S. Corps of Engineers.

PLANNED IMPROVEMENT OF RESOURCES FOR GRADUATE TRAINING:

Space:

Completion of Section 3 of Morrill Hall, scheduled for the latter part of this year, will provide approximately 3100 square feet of additional floor space, including the following:

Experimental laboratory for high-pressure and other types of work
Rock preparation room
Storage rooms
Enlargement of Sedimentation laboratory, with provision for an experimental stream table.
Cold room for low-temperature experiments (one of about 3 in the U. S. associated with a geology department)
Office space for two persons.

Completion of Section 4 of Morrill Hall, sceduled for about 1964, will provide a further addition of roughly 16,000 square feet of floor space, including the following:

Geochemistry laboratory
Advanced mineralogy laboratory
General-purpose laboratory
Classroom
Gamma-ray radiation laboratory
Seismograph station
Photogeology laboratory (probably the largest and best equipped in any geology department of the U. S.)
Seminar room
Museum room
Space for experimental work and other types of research
Storage rooms
Office space for 22 graduate students and 4 faculty members

Equipment: Equipment lists for the above space include the following:

Gravity meter
Stream table, 47 x 7 ft. in size, probably one of the largest for any geology dept. in the U. S.

Portable seismic equipment
Milling and grinding machines
Two-circle goniometer
Infra-red spectrophotometer
Standard spectrophotometer
Muffle furnace and quenching furnace
Radiocobalt irradiation unit
Monochromator
Ultra-violet mineral testing unit
Scintillatron
Density balance
Beckman pH meter
Universal stages
Emission spectrograph
Viscometer
Centrifuges
X-ray equipment
Dilatometer
Calculating machines
Photogrammetric equipment
Photographic equipment
Special equipment for petrographic microscopes
Electronic recording unit.

Collections: Additions to mineralogical, petrologic, and paleontologic collections are made every year both by purchase and through the field work of staff members. Particular emphasis is being placed on the collections of maps and air photos; the latter is already the best in the New England area, and it is hoped that the former may become so; the Army Map Service collection of world maps is one addition now being made.

Library: A continuing program of acquisitions should provide the basic reference materials for nearly all fields of geology, together with more extensive material for the specialized fields which the department is particularly qualified to pursue.

Staff: The following additions to staff have been requested:
1962 - Assistant Professor, marine geology)fields tenta-
1963 - Asst. or Assoc. Prof., geophysics (tive; contin-
1964 - Asst. or Assoc. Prof., petrology)gent on avail.
1964 - Visiting professor in field to be designated from year to year; to be a distinguished scientist from Europe or elsewhere.

PROPOSED DOCTORATE PROGRAM:

FIELDS OF SPECIALIZATION:

At the start, it is planned that doctorate thesis projects be limited to the following combinations of fields:

Ground-water and economic geology

Structural and regional geology

Geomorphology - Cenozoic geology - photogeology

As staff is enlarged, other fields would be added; marine geology would be given preferential consideration.

SPECIAL DEPARTMENTAL REQUIREMENTS:

1. A minimum of 6 months of field training and experience.

2. Strong foundation in related sciences, particularly physics, chemistry, mathematics, and biological sciences. These, together with engineering, would be recommended for the minor.

3. A basic knowledge of all main fields of geology, ranked, however, in an order of decreasing emphasis elected by the individual candidate.

COURSES OFFERED: existing courses, as listed on preceding pages, are essentially adequate as a basis for doctorate training; addition of the following new courses, however, would provide improved balance and strengthen special fields; approval of these courses is hereby requested:

202. Advanced mineralogy. Physical and chemical characteristics of minerals and methods of laboratory investigation, including X-ray, differential thermal analysis, and microchemical techniques. Prerequisite, course 201 and permission of instructors.
3 credits. The staff.

225. Cenozoic stratigraphy. Occurrence, correlation, and origin of marine and terrestrial Cenozoic deposits, and their relation to paleogeographic and tectonic conditions; emphasis is on North America. Prerequisites, 178 and 189.
3 credits. Mr. Webb.

227. Marine Geology. Physical characteristics and geological processes of the ocean basins and margins, and their bearing on interpretation of geologic history. Prerequisites, 178 and 194.
3 credits. Mr. Webb.

232. Physiography of North America. A survey of the physiographic provinces of North America and their evolution, with emphasis on problems and methods of approach. Prerequisite, 189.
3 credits. Mr. Motts.

245. Evolution of geologic concepts. Perspective on current geological thinking in the light of its historical background; particular attention to controversial questions and to the rise and decline of ruling theories. Prerequisite, one year of graduate study.
2 Credits. Mr. Motts. (required of all doctoral candidates).

400. Thesis, Ph.D. degree.
30 credits.

It is planned that the above courses would be given in alternate years or on request.

POSSIBLE PARTICIPATION BY OTHER INSTITUTIONS:

Woods Hole Oceanographic Institution. Informal cooperation with this organization has been carried on already in connection with Master's thesis projects. Interest has been expressed in a more formal program of cooperative research and graduate training, including the possibility of joint appointments.

U. S. Geological Survey. It is anticipated that personnel of this organization may be stationed here in the future, and be available to participate in advanced seminars and advise on thesis projects concerned with the geology of this region.

ANTICIPATED ENROLLMENT: Inquiries and applications received during the past few years suggest the following minimum enrollment:

1961-62 - 1
1962-63 - 3
1963-64 - 4 or 5

PROBABLE SOURCES OF FINANCIAL AID:

University Teaching and Departmental Fellowships and Teaching Associateships, which are expected to increase in number as undergraduate enrollment expands.

National Defense Education Act Fellowships, to be applied for as soon as program is approved.

National Science Foundation Graduate Fellowships and Cooperative Fellowships.

Oil Co. Fellowships, to be solicited as soon as program is approved.

National Science Foundation research grants: an invitation has been received to submit a proposal for a long-range photogeologic study of ice-free areas in Antarctica; this could be undertaken only with the help of doctorate students, and could subsidize many such students for an extended period of time.

Cambridge Air Force Research Center: this organization has expressed strong interest in a research contract proposal which would take advantage of certain of our special facilities, and which could subsidize one or more doctorate candidates.

EXPECTED PLACEMENT OF STUDENTS RECEIVING THE DEGREE:

State and federal geological surveys

Petroleum, mining, and construction industries

Federal and other research institutes

College and university teaching: the numerous requests already received for applicants to fill positions requiring the doctorate degree suggest that this would be a major area of placement.

PROPOSED CURRICULA FOR THE

NEW SCHOOL OF HOME ECONOMICS

DECEMBER, 1961

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Marion A Niederpruem

Marion A. Niederpruem, Dean
School of Home Economics

PRESENT DEVELOPMENTAL STATUS

The reorganization of the School of Home Economics and the proposed revision of its curricula have been under consideration by the staff for several years. After much preliminary discussion, an ad hoc committee was appointed in October of 1958 to study the internal administrative and academic situation. This was a school committee. A preliminary report submitted to the University Administration resulted in approval and encouragement to pursue the investigation and revision. Subsequent sub-committees of the staff, and the joint staff (research, extension and resident) as a united body meticulously analyzed the philosophy, objectives, offerings, promotion, and campus and public image of the school. This self examination convinced us of the urgency of making - not infinitesimal changes in a random manner but - the preparation of a revised program based on a new philosophy and objectives which are realistic in today's society including a vision which projects into the future.

During the period of the above investigation, the school was faced with a change in administration. Plans continued to formulate during the period of time taken to seek a new, dynamic and progressive administrator who could and would share with us the challenge and vision of an entirely New School of Home Economics.

The search was successfully culminated in June of 1961 and plans were actively resumed in September when our present Dean assumed office. An extensive, critical analysis was made of all courses, prerequisites, lecture-laboratory-discussion balance of the structure of all classes. Careful consideration was given to delete all obsolete materials and superfluous details; a concerted effort was made to up-grade, up-date and increase the depth and academic quality of existing courses. New courses were designed to meet the professional needs of specialized areas. The academic caliber of the recommendations and the relationship of the entire program to the total University community was studied. Conferences were held with leaders of professional and business organizations, administrators and staff members of University of Massachusetts and other colleges and universities which led to the crystalization of the resulting proposed program. (See attached list of some individuals consulted.)

This new program is not skill oriented. It applies the principles and concepts of fundamental Arts and Sciences of liberal education to permit the depth in areas of specialization which will produce professionally competent graduates of the school.

These curricula, providing a minimum of sixty credits of liberal education conforms to the university requirements for a B.S. degree, and includes a School of Home Economics core of nine credit hours, a core for each major area and a range from 120 to 128 credit hours for graduation.

The five major curricula offered are unique to Home Economics. They are Dietetic and Institutional Administration, Food and Nutrition in Business, Fashion in Retailing and Business, Secondary Education and Extension and Nursery School Education. These are found under the specialized areas of Food and Nutrition, (FN); Textiles, Clothing and Related Arts, (TCRA); and Home Economics Education, (HEEd.). The subject matter areas of Management and Family Economics, (MFE) and Human Development, (HD) are supportive to the majors. The letters in parenthesis are area codes. Prerequisites of appropriate arts and science courses allow

for application of fundamental knowledge to the content of courses in specialized areas. Course content is based on research in Home Economics as well as in the physical and biological sciences, social sciences, arts and humanities.

Professional Home Economists are college and university graduates with bachelors degrees in Home Economics. They serve individuals, families and communities through schools and colleges, extension programs, business organizations of many kinds all over the world, community and government organizations and agencies, newspapers, magazines, radio and television. Representative types of activities that Home Economists participate in include teaching, research, writing, dietetics, extension work, interior decoration, fashion merchandising, food consulting, food service management and product development.

The School of Home Economics integrates research, extension and resident staffs. To facilitate the transitional period of this proposed program, the services of some exceptionally qualified extension specialists will be available on a part-time basis. The conversion of this program is planned on a graduated scale over a three-year period. It is recognized that this revision is experimental and will be revised periodically to meet changing needs.

It is with a feeling of internal unanimity that the School of Home Economics makes this presentation--the staff has cast a unanimous vote of approval, acceptance and support of the philosophy, objectives and curricula of the New School of Home Economics.

In consideration of the program with its interdisciplinary factors, its professional requirements and opportunities and the desire to insure the graduate of a broad general education with adequate professional competencies, many qualified individuals were consulted including: President Lederle, Provost Woodside, Deans; Hunsburger, Kirshen, Maher, Purvis, Spielman,; Professors; J. Blackmore, E. Buck, L. Davis, G. D. DiMaggio, R. Drew-Bear, T. Fox, P. Gamble, M. Goldberg, D. Hankinson, H. Hardy, C. King, H. Korson, M. Macdonald, C. Neet, P. Norton, W. Randall, R. T. Smith, G. Snyder.

Executives and personnel of various professional and business organizations provided helpful suggestions, some of these representative groups were; National Home Economics Association, Home Economists in Business, Deans of Home Economics in Land Grant Universities, National Retail Merchants Association, Food Industry, Textile and Clothing Industry, Educational Directors of Secondary and Nursery Schools, leaders of various types of Food Services.

HISTORICAL IMPLICATION

Home Economics is one of the important branches of the land-grant system of higher education and is responsible for three services: resident instruction, research and extension. As early as 1888, Dr. W. O. Atwater, first director of the Office of Experiment Stations pressed for support for nutrition research. Congress in 1894 voted special funds to initiate nutrition investigations in the United States Department of Agriculture. This resulted in an expanding program of food and nutrition research using both human subjects and animals. An outgrowth of this was courses of study in land-grant institutions which became known as the home economics curriculum.

By 1902, home economics curriculum expanded from its limited beginning to include courses reflecting current social and scientific developments. In 1915 the United States Department of Agriculture, with authority secured from Congress, made a partial reorganization of the department which included the Office of Experiment Stations and a newly created Office of Home Economics. This gave impetus to the growth of home economics curriculum and widened the scope of the home economics research and extension programs to include consumer economics, housing, clothing and other goods and services.

In 1923 the Office of Home Economics was elevated to Bureau status and funds for its research were provided through the annual Appropriation Acts. In subsequent reorganizations, the Bureau of Home Economics became the Bureau of Human Nutrition and Home Economics in 1943 and then the Institute of Home Economics in 1957. Currently, there are the following divisions in the Institute of Home Economics: the Clothing and Housing Division; the Household Economics Research Division; and the Human Nutrition Research Division.

The liberal scope of the research areas authorized by the Federal-grant Acts provided a firm base for the Home Economics Research program at both the land-grant institutions and in the United Stated Department of Agriculture. This stimulated the growth of Home Economics Curriculum at the undergraduate and graduate levels in land-grant institutions. The early years were primarily concerned with the establishment and development of curriculum; and education in the basic disciplines as well as the applied aspects became part of the program.

The year 1962 (Land-Grant Centennial) marks an important milestone for Home Economics which has made an impressive record in the past century at home and abroad. Now, the progressive economic, technological and social environment of this new age demand more intensive and broad educational experience. Currently, Home Economics resident instruction, research and extension objectives are being further strengthened and expanded to meet this challenge.

SUMMARY OF PROPOSED CHANGES

PROPOSED CURRICULA REVISION:

from-	to-
Foods and Nutrition and Institutional Administration	Food and Nutrition 1. Dietetic and Institutional Administration 2. Food and Nutrition in Business
Pre-Research in Foods and Nutrition	
Merchandising	Textiles, Clothing and Related Arts 1. Fashion in Retailing and Business
Home Economics Education and Extension	Home Economics Education 1. Nursery School Education 2. Secondary Education and Extension
Child Growth and Development	

The curricula revisions utilize present courses which have been revised and coded and numbered to conform to sequence progression. H.Ec.54,Nutrition,and H. Ec. 87, Principles and Practices of Tailoring have been deleted. The strengthening of the present offerings was a primary consideration in the revision.

PROPOSED NEW COURSES:

TCRA 21 Man and Clothing
TCRA 42 Fashion in Retailing and Business
MFE 50 Family Management and Decision Making
TCRA 66 Apparel and Home Furnishing Accessories

MFE 74 Consumer Attitude and Demands
TCRA 76 History of Decorative Arts
TCRA 85 Fashion Industries
TCRA 93 Retail Field Experience

SCHOOL OF HOME ECONOMICS

Marion A. Niederpruem, Dean

The School of Home Economics encompasses an area of study which applies the principles and concepts of the fundamental arts and sciences to the physiological, psychological, social, and economic environmental needs of man.

The curricula of the school have been designed to provide a liberal education with depth in specialized areas of Foods and Nutrition, Textiles-Clothing and Related Arts, and Home Economics Education to insure professional competence. The transitional continuing relationships between liberal and professional education seek to develop in the student a disciplined mind, mental curiosity, and professional aspirations.

Options under these majors lead to challenging and creative positions in industry, government, business, education, and service. Experience and advanced study in areas of specialization are needed to meet the demand for competent Home Economists to assume responsible roles in today's progressive society, and to develop the administrators, executives and research leaders for the future. The candidates for BS degree in Home Economics will meet the University's general education requirements and core courses* in Home Economics as well as specific requirements prescribed in each field of specialization.

*Core Courses: FN 27; TCRA 21, 23; MFE 50.

FOOD AND NUTRITION

Food and Nutrition offers curricula which provide a strong foundation in the arts and sciences to support basic courses in foods and nutrition under two options: Dietetics and Institutional Administration; and Food and Nutrition in Business.

Dietetic and Institutional Administration

This curriculum is planned to meet the basic requirements of the American Dietetic Association for admission to approved dietetic internships or other on-the-job training programs. In addition, the curriculum includes liberal studies to help meet the demands of today's society. The program prepares the graduate for positions as staff and administrative dietitians in various types of food service; nutritionists with schools, Public Health and social welfare agencies; teaching and research dietitians. The sequence offers opportunities for further work at the graduate level for the student interested in college teaching, positions with extension and other government services, research in institutions of higher learning, medical centers and industry.

MAJOR IN DIETETIC AND INSTITUTIONAL ADMINISTRATION

	Credits		Credits
General Education	60	Professional	25
Home Economics Core	9	Electives	15
Semi-Professional (incl. Gen. Ed.)	15	Physical Education	8
		Credits	124

I. General Education

	Credits
English 1 and 2, Composition	4
English 25 and 26, Masterpieces of Western Literature	6
Speech 3, Oral Communication	2
Economics 25, Elements of	3
Sociology 25, Introductory	3
Psychology I, General	3
History 5, 6, 25, or 26, or Government 25, 26, 51, 52, 61, 62, or 66	3
Chemistry 1 and 2, General	6
Chemistry 33, Organic	4
Chemistry 79, Elementary Biochemistry	4
Zoology 1, Introductory	3
Zoology 35, Vertebrate Physiology	3
Bacteriology 31, Introductory	4
Mathematics 1, Introductory	3
Accounting 25, Introduction to Accounting	3
Limited Electives - to be selected from the following areas: Music, Art, Speech, Anthropology, Philosophy, or Language	6

II. Home Economics Core

FN 27, Man and Nutrition	3
Select two from remaining three core courses: TCRA 21, Man and Clothing; TCRA 23, Art for Living; MFE 50, Family Management and Decision Making	6

III. Semi-Professional

FN 30, Food Science and Preparation	3
HEEd 81, Adult Education in Home Economics	3
Limited Electives - to be selected from the following sequence: MFE 74, Consumer Attitude and Demand; MFE 77, Theory and Application of Management; Public Health 61 or 62, General & Community Sanitation; Economics 79, Labor Problems; Horticulture 74, Merchandising of Perishables	9
or	
Honors	6
Research Problems	3

Major in Dietetic and Institutional Administration(cont).

IV. Professional	Credits
FN 51, Meal Management	3
FN 91, 92, Institutional Administration	8
FN 52, Advanced Nutrition and Dietetics	3
FN 89, Nutrition in Disease	3
FN 94, Experimental Foods	3
Management 64, Personnel Management	3
FN 95, Seminar in Institutional Administration or Foods	1
FN 96, Seminar in Nutrition	1
Electives	15

MAJOR IN DIETETIC AND INSTITUTIONAL ADMINISTRATION

FRESHMAN YEAR

1st semester	Credits	2nd semester	Credits
English 1, Composition	2	English 2, Composition	2
*Speech 3	2	Chemistry 2, General	3
Chemistry 1, General	3	Psychology I, General	3
FN 27, Man and Nutrition	3	Mathematics 1, Introduction	3
Foreign Language or Humanities Elective	3	Zoology 1, Introduction	3
Sociology 25, Introductory	3	Physical Education 6, 8	
Physical Education 5, 7			

*May be taken either semester
If a foreign language is elected, student must complete the intermediate year.

SOPHOMORE YEAR

1st semester	Credits	2nd semester	Credits
English 25	3	English 26	3
Economics 25, Elements of	3	History or Government Elective	3
*Zoology 35, Vertebrate Physiol.	3	*Bacteriology 31, Introductory	4
Chemistry 33, Organic	4	FN 30, Food Science & Preparation	3
Elective	3	Accounting 25, Introduction	3
Physical Education 25, 27		Physical Education 26, 28	

*May be taken either semester

JUNIOR YEAR

1st semester	Credits	2nd semester	Credits
FN 51, Meal Management	3	FN 52, Adv. Nutri. & Diet.	3
Limited Elective	3	FN 94, Experimental Foods	3
HE Core Elective	3	HE Core Elective	3
Chemistry 79, Elementary Biochem.	4	Limited Elective	3
HEEd. 81, Adult Ed. in HE	3	Management 64, Personnel Mgt.	3

SENIOR YEAR

1st semester	Credits	2nd semester	Credits
FN 89, Nutrition in Disease	3	FN 92, Quantity Food Preparation	4
FN 91, Inst. Adm.	4	FN 96, Seminar in Nutrition	1
FN 95, Seminar in Inst. Adm. or Foods	1	Elective	6
Electives	6	Limited Elective	6

Food and Nutrition in Business

This curriculum is based on professional training in Food and Nutrition combined with selected courses in the humanities, social sciences and business. The program is designed for the student who is oriented to the business world, and leads directly into product development or consumer services with food and equipment industries. Positions are open in the field of communications for the student who combines her knowledge of Food and Nutrition with Journalism, English and Public Speaking. Graduates with a major in this sequence are also placed in advertising and public relations agencies or with a consulting firm. This curriculum allows students to pursue graduate study.

MAJOR IN FOOD AND NUTRITION IN BUSINESS

	Credits		Credits
General Education	65	Professional	23
Home Economics Core	9	Electives	15
Semi-Professional (incl. Gen. Ed.)	16	Physical Education	8

Credits 128

I. General Education	Credits
English 1 and 2, Composition	4
English 25 and 26, Masterpieces of Western Literature	6
Speech 3, Oral Communication	2
Speech 51, Voice and Diction and Oral Interpretation	3
Philosophy 11, Basic Ideas Western Civilization or 31, Intro. Logic and Scientific Method or 42, Ethics or 82, Aesthetics	3
Journalism 51, Intro. to Mass Communications	3
Psychology 1, General	3
Economics 25, Elements of	3
Food Economics 75, Food Marketing	3
Food Economics 78, Food Merchandising	3
Sociology 25, Introductory	3
Government 25, American or Government 66, American Political Thought	3
Chemistry 1 and 2, General	6
Chemistry 33, Organic	4
Mathematics I, Introductory	3
Zoology 1, Introductory	3
Zoology 35, Vertebrate Physiology	3
Bacteriology 31, Introductory	4
Art 31, Basic Design	3

II. Home Economics Core	
FN 27, Man and Nutrition	3
TCRA 23, Art for Living	3
MFE 50, Family Management and Decision Making	3

Major in Food and Business(cont.)

I
III. Semi-Professional

	Credits
MFE 75, Personal and Family Economics	3
MFE 77, Theory and Application of Management	3
Marketing 53, Marketing Principles	3
Marketing 62, Marketing Research	3
Chemistry 79, Elementary Biochemistry*	4

*Not required for utility work. Substitute Marketing 54, Salesmanship & Sales Management

IV. Professional

FN 30, Food Science and Preparation	3
FN 51, Meal Management	3
FN 52, Advanced Nutrition and Dietetics	3
HEEd. 61, Communication by Demonstration Methods	3
FN 92, Quantity Food Preparation	4
FN 94, Experimental Foods	3
MEF 74, Consumer Attitudes and Demand	3
FN 95, Seminar in Foods	1
Electives	15

MAJOR IN FOOD AND NUTRITION IN BUSINESS

FRESHMAN YEAR

1st semester	Credits	2nd semester	Credits
English 1, Composition	2	English 2, Composition	2
Speech 3, Communications	2	Psychology I, General	3
Chemistry 1, General	3	Chemistry 2, General	3
FB 27, Man and Nutrition	3	Zoology 1, Introductory	3
Sociology 25, Introductory	3	TCRA, Art for Living	3
Elective	3	Elective	3
Physical Education 5, 7		Physical Education 6, 8	

SOPHOMORE YEAR

1st semester	Credits	2nd semester	Credits
English 25	3	English 26	3
Chemistry 33, Organic	4	Bacteriology 31, Intro.	4
Speech 51, Voice & Diction	3	FN 30, Food Sci. & Prep.	3
Zoology 35, Vertebrate Physiology	3	Mathematics I, Intro.	3
Elective	3	Economics 25, Elements	3
Physical Education 25, 27		Physical Education 26, 28	

JUNIOR YEAR

1st semester	Credits	2nd semester	Credits
FN 51, Meal Management	3	FN 52, Advanced Nutri. & Diet.	3
MEF 75, Personal & Family Finance	3	FN 94, Experimental Foods	3
Chemistry 79,Elementary Biochem.*	4	Philosophy - select one:	
or Marketing 54	3	11,Basic Ideas of West. Civ.	
Marketing 53, Principles	3	31,Intro.Logic & Scient.Meth.	
Journalism 51, Introduction to		42,Ethics	
Mass Communication	3	82,Aesthetics	3
		MFE 50, Family Mgt. & Decis.Making	3
		Elective	3

*Not required for students interested in utility work.

SENIOR YEAR

1st semester	Credits	2nd semester	Credits
HEEd. 61, Communication by Demonstration Methods	3	FN 92, Quantity Food Prep.	4
FN 95, Seminar in Foods	1	Food Econ. 78, Food Merchandising	3
MFE 74, Consumer Attitudes & Demand	3	Government 25, American or	
MFE 77, Theory & Appl. of Mgt.	3	Government 66,Amer.Polit.Thought	3
Food Economics 75, Food Mktg.	3	Marketing 62, Marketing Research	3
Elective	3	Art 31, Basic	3

TEXTILES, CLOTHING AND RELATED ARTS

A field of specialization in this area is entitled FASHION IN RETAILING and BUSINESS. The retailing and professional opportunities associated with clothing, textiles, home furnishings and related merchandise are limitless. They include positions with manufacturers, producers, retailers, buying organizations, newspapers and magazines, radio and TV, consumer groups as well as educational institutions and social and government agencies. The student who is interested in the business field can get, by specializing in this area, a curriculum with a strong program of liberal arts with emphasis on the social sciences. Courses which build on this base toward professional business competency include fundamentals of clothing, textiles, fashion and related arts as well as courses in business, retailing and related subjects.

MAJOR IN FASHION IN RETAILING AND BUSINESS

	Credits		Credits
General Education	60	Professional	24
Home Economics Core	9	Electives	12
Semi-Professional (including Gen. Ed.)	22	Physical Education	8

Credits 127

I. General Education

English 1 and 2, Composition	4
Speech 3, Oral Communication	2
English 25 and 25, Masterpieces of Western Literature	6
Foreign Language or Proficiency	12
Mathematics I, Introductory	3
Physical or Biological Science - 3 Sciences or 2 Sciences and Math II	9
Sociology 25, Introductory	3
Psychology I, General	3
Economics 25, Elements of	3
Economics 55, Consumption and Personal Finance	3
Limited Electives, one from each following sequence:	12
Philosophy 31, 42, 82	
Government 25, 66	
Sociology 59	
Psychology 62, 79	

II. Home Economics Core

TCRA 21, Man and Clothing	3
TCRA 23, Art for Living	3
FN 27, Man and Nutrition or	
MFE 50, Family Management and Decision Making	3

Textiles, Clothing and Related Arts	Credits
III. Semi-Professional	
TCRA 28, Fundamentals of Clothing Const. or	
TCRA 53, Advanced Clothing Construction	3
TCRA 24, Textiles I	3
TCRA 86, Textiles II	3
TCRA 65, Apparel Selection and Design	3
TCRA 66, Apparel & Home Furnishing Accessories	3
TCRA 85, Fashion Industries	4
HEEd. 61, Communication by Demonstration Methods	3
IV. Professional	
TCRA 42, Fashion in Retailing and Business	3
Marketing 53, Principles	3
Marketing 71, Retail Merchandising	3
MFE 74, Consumer Attitudes and Demand	3
TCRA 93, Retailing Field Experience	6
TCRA 95, Seminar in Fashion in Retailing & Business	3
TCRA 97 or 98, Problems in Retailing	3
Electives	12

MAJOR IN FASHION IN RETAILING AND BUSINESS

FRESHMAN YEAR

1st semester	Credits	2nd semester	Credits
English 1, Composition	2	English 2, Composition	2
Speech 3, Communication	2	Science, Physical or Biological	3
Science, Physical or Biological	3	Psychology, I	3
Sociology 25	3	Language	3
Language	3	TCRA 24, Textiles I	3
TCRA 23, Art for Living	3	Physical Education 6, 8	
Physical Education 5, 7			

SOPHOMORE YEAR

1st semester	Credits	2nd semester	Credits
English 25	3	English 26	3
Science, Physical or Biological or Mathematics 1	3	Mathematics 1 or 2	3
Economics, 25	3	Economics, 55	3
Language	3	Language	3
TCRA 21, Man & Clothing	3	TCRA 42, Fashion in Retailing and Business	3
Physical Education 25, 27		TCRA 28, Fund. of Clothing Construction or	3
		TCRA 53, Adv. Clothing Construction	
		Physical Education 26, 28	

JUNIOR YEAR

1st semester	Credits	2nd semester	Credits
Marketing 53, Prin.	3	Marketing 71, Retail Merch.	3
Sociology 59, Social Stratification or Anthropology 63 Social	3	MFE 74, Con. Attitudes and Demand	3
TCRA 65, Apparel Selection and Design	3	Psych. 62, Social or Psych. 79, Personality	3
HEEd. 61	3	TCRA 66, Apparel and Home Furnishing Accessories	3
Communication by Demonstration Methods	3	Elective	6
Elective	3		

SENIOR YEAR

1st semester	Credits	2nd semester	Credits
Block		Government 25, Amer. or	
TCRA 85, Fashion Indus.	4	Government 66, Amer. Pol. Thought	3
TCRA 95, Seminar in Fashion Retailing & Business	3	TCRR. 86. Textiles II	3
TCRA 93, Retailing Field Experience	6	Philosophy 42, Ethics or Philosophy 31, Logic or Philosophy 82, Aesthetics	3
		Core Elective	3
		Elective	3

HOME ECONOMICS EDUCATION

Home Economics Education offers curricula which provide a broad cultural education and preparation for teaching under two options: Secondary Education and Extension; and Nursery School Education.

Secondary Education and Extension

The School of Home Economics, in cooperation with the School of Education, prepares students for teaching Home Economics in junior and senior high schools. Students interested in Home Economics Extension,with the aid of an extension advisor, select courses that prepare them for continuing education positions in extension in both adult and 4-H programs. This curriculum provides basic training for graduate work in the field of home economics teaching and extension.

MAJOR IN SECONDARY EDUCATION AND EXTENSION

	Credits		Credits
General Education	61	Professional	34
Home Economics Core	9	Electives	9
Semi-Professional (incl. Gen. Ed.)	15	Physical Education	8
		Credits	128

I. General Education	Credits
English 1 and 2, Composition	4
English 25 and 26, Masterpieces of Western Literature	6
Speech 3, Oral Communication	2
Speech 51, Voice & Diction & Oral Interpretation or English 51, Advanced Expository Writing	3
Sociology 25, Introductory	3
Sociology 57, The Family	3
Psychology I, General	3
Psychology 56, Educational	3
Psychology 66, Adolescent	3
History 25 and 26, American	6
Philosophy 11, 31, 42, or 51	3
Government 25, 52, 53, 56, 63, 66, or 72	3
Economics 25, Elements of	3
Chemistry 1 and 2, General	6
Chemistry 33, Organic	4
Mathematics I, Introductory	3
Sociology 51, 52, 59, 75 or Economics 26, 53, 55	3

II. Home Economics Core	
FN 27, Man and Nutrition	3
TCRA 23, Art for Living	3
MFE 50, Family Management and Decision Making	3

Major in Secondary Education and Extension(cont.)

III. Semi-Professional	Credits
Education 51, History of Education	3
Education 52, Principles amd Methods of Teaching	3
FN 30, Food Science and Preparation	3
TCRA 24, Textiles I	3
TCRA 28, Fundamentals of Clothing Construction or TCRA 21, Man and Clothing	3

IV. Professional	
HEEd. 82, Curriculum in Home Economics	3
Ed. 85, Observation and Student Teaching	6
FN 51, Meal Management	3
FN 73, Nutrition During Growth and Development	3
TCRA 53, Advanced Clothing Construction	3
TCRA 65, Apparel Selection and Design	3
TCRA 79, Interior Design	3
MFE 75, Personal and Family Economics	3
HEEd.61, Communication by Demonstration Methods	3
MFE 77, Theory and Application of Management	3
HEEd.95, Seminar in Home Economics Education	1
Electives	9

MAJOR IN SECONDARY EDUCATION AND EXTENSION

FRESHMAN YEAR

1st semester	Credits	2nd semester	Credits
English 1, Composition	2	English 1, Composition	2
Speech 3, Oral Communication	2	Psychology I, General	3
Chemistry 1, General	3	Chemistry 2, General	3
FN 27, Man and Nutrition	3	Mathematics I, Introductory	3
Sociology 25, Introductory	3	TCRA 24, Textiles I	3
Government 25	3	Physical Education 6, 8	
Physical Education 5, 7			

SOPHOMORE YEAR

1st semester	Credits	2nd semester	Credits
English 25	3	English 26	3
Philosophy 11, 31, 42, or 51	3	Economics, Elements of	3
Chemistry 33, Organic	4	FN 30, Food Science & Prep	3
TCRA 25, Art for Living	3	TCRA 28, Fund. Cloth. Constr. or	
TCRA 65, Apparel Select. & Design	3	TCRA 21, Man and Clothing	3
Physical Education 25, 27		MFE 50,Fam.Mgt.and Decis.Making	3
		Physical Education 26, 28	

JUNIOR YEAR

1st semester	Credits	2nd semester	Credits
Speech 51 or English 51	3	Psychology 56, Educational	3
Sociology 57, The Family	3	Ed. 51, History of Education	3
FN 51, Meal Management	3	History 26, American	3
TCRA 53, Adv. Clothing Construction	3	MFE 77, Theory & Appl. of Mgt.	3
History 25, American	3	Electives	6
HEEd. 95, Seminar in HEEd.	1		

SENIOR YEAR

1st semester	Credits	2nd semester	Credits
Psychology 66, Adolescent	3	Education 52, Methods	3
FN 61, Communication by Demonstration Methods	3	HEEd. 82, Curriculum	3
TCRA 79, Interior Design	3	Education 85, Practice Teaching	6
MFE 75, Family Economics	3		
FN 73, Nutrition During Growth and Development	3		
Elective	3		

Nursery School Education

Students with a special interest in young children may elect this option. All are required to take courses in the College of Arts and Sciences which enrich the basic courses of the Nursery School Education curriculum. Observation and participation in the nursery school activities facilitate the study of the pre-school child. More intensive specialization for qualified students may be obtained through the election of one semester affiliation during the senior year with: (1) Merrill-Palmer School in Detroit, Michigan, which specializes in the study of human development and family life; (2) Eliot-Pearson School in Boston, Massachusetts, which gives professional training for teaching in nursery schools and kindergartens. This option prepares the student to become a nursery school teacher, a teacher of exceptional children-nursery school level, or a teacher in hospital recreation programs. A student graduating with an option in Nursery School Education is well-qualified to pursue graduate work.

MAJOR IN NURSERY SCHOOL EDUCATION

	Credits		Credits
General Education	60	Professional	31
Home Economics Core	9	Electives	15
Semi-Professional (incl. Gen. Ed.)	6	Physical Education	8

Credits 121

I. General Education	Credits
English 1 and 2, Composition	4
English 25 and 26, Masterpieces of Western Literature	6
Speech 3, Oral Communication	2
Zoology 1, Introductory	3
Zoology 37 and 38, Human Anatomy and Physiology	6
Socioloty 25, Introductory	3
Psychology I or II, General	3
Economics 25, Elements of	3
Government 25, 52, 53, 56, 63, 66, or 72	3
Statistics 77, Elementary Experimental Statistics	3
Philosophy 11, 31, 42, 51, 72, or 82	3
English 51, or Speech 51, 91, 92, or 93	3
Foreign Language or proficiency	12
(if proficiency in language is accomplished before the completion of 12 credits, electives taken in place of the language are to be chosen from a selected list of courses from the following areas: Zoology, Psychology, Speech, Sociology and Anthropology, Recreation and Physical Education, Education, and Public Health)	
Limited Electives	6
To be chosen from the following areas: Anthropology, Art, Biological Sciences, Economics, Education, English or American Literature, History, Home Economics (core only), Music, Physical Sciences	

Major in Nursery School Education (cont.)

II. Home Economics Core	Credits
FN 27, Man and Nutrition	3
TCRA 23, Art for Living	3
MFE 50, Family Management and Decision Making	3

III. Semi-Professional	
Anthropology 63, Social Anthropology	3
Psychology 83, Abnormal Psychology	3

IV. Professional	
Psychology 65, Child Psychology or HD 70, Child Development	3
Sociology 57, The Family	3
Music 85, Music Education -- Music for the Elementary School Teacher	3
HEEd. 63, Art Activity in Recreation	3
Elective from area of Psychology, Zoology, Sociology, Recreation and Physical Education, Education, Public Health, Speech	3
HD 83, 84, Nursery School Management	6
FN 73, Nutrition During Growth and Development	3
HD 95, Seminar in Human Development	2
HD 96, Seminar in Human Development	2
HD 97, Problems in Nursery School Management	3
Electives	15

MAJOR IN NURSERY SCHOOL EDUCATION

FRESHMAN YEAR

1st semester	Credits	2nd semester	Credits
English 1, Composition	2	English 2, Composition	2
Zoology 1, Introductory	3	Economics 25, Elements of	3
Foreign Language or proficiency	3	Foreign Language or proficiency	3
FN 27, Man and Nutrition	3	Sociology 25, Introductory	3
Psychology I or II, General	3	Elective	3
Speech 3, Oral Communication	2	Physical Education 6 and 8	
Physical Education 5 and 7			

SOPHOMORE YEAR

1st semester	Credits	2nd semester	Credits
English 25	3	English 26	3
Zoology 37, Human Anatomy and Physiology	3	Zoology 38, Human Anatomy and Physiology	3
Foreign Language or proficiency	3	Foreign Language or proficiency	3
Psychology 65, Child Psychology or HD 70, Child Development	3	TCRA 23, Art for Living	3
Elective	3	Sociology 57, The Family or HD 80, Human Dev. in Family	3
Physical Education 25 and 27		Physical Education 26 and 28	

JUNIOR YEAR

1st semester	Credits	2nd semester	Credits
HD 83, Nursery School Management	3	Psychology 83, Abnormal	3
HEEd. 63, Art Activity in Recreation	3	HD 84, Nursery School Mgt.	3
MFE 50, Mgt. & Decision Making	3	Statistics 77, Elem.Experimental	3
Music 85, Music Ed. -- Music for the Elementary School Teacher	3	English 51 or Speech 51, 91, 92, or 93	3
Elective	3	Government 25,52,53,56,63,64, 66, or 72	3

SENIOR YEAR

1st semester	Credits	2nd semester	Credits
		Affiliation at the Merrill-Palmer Institute or the Eliot-Pearson School or:	
Anthropology 63, Social	3		
FN 73, Nutrition During Growth and Development	3	Electives selected from Psychology, Speech, Sociology, Recreation, Physical Ed.,Education, Public Health, Zoology	3
Philosophy 11,31,42,51,72, or 82	3		
HD 95, Seminar in Human Development	2	Electives: to be chosen from the areas of Anthropology, Art, Biological Sciences, Economics, Education,English or American Literature,History, HE(core only), Music,Phys.Sci.,Psychology, Sociology	6
HD 97, Special Problems in Nursery School Education	3	Electives	6
		HD 96, Seminar in Human Develop.	2

RECOMMENDED NEW COURSES

The major sequences in the School of Home Economics in the past were organized to meet the needs of that time. In the reorganization of the School of Home Economics (the development of which has been described previously) consideration of the economic, technological, and social environment of this age has resulted in our offering a broader general education program and more intensive study in an area of specialization. Therefore, it has been necessary to go through the processes of complete curricula development in order to evolve new major sequences which will meet the needs of the student in the present and the future.

To supplement existing courses, which have been revised and up-dated, a few new courses are considered necessary at this time to strengthen the work offered in certain areas. They are as follows:

TCRA	21	Man and Clothing
TCRA	42	Fashion in Retailing and Business
MFE	50	Family Management and Decision Making
TCRA	66	Apparel and Home Furnishing Accessories
MFE	74	Consumer Attitude and Demands
TCRA	76	History of Decorative Arts
TCRA	85	Fashion Industries
TCRA	93	Retailing Field Experience

The TCRA courses will be introduced over a three year transitional period. Current staff with the aid of Dean Niederpruem and several well qualified extension specialists will teach these courses. At present, there is no need for new equipment, new staff or other facilities for these courses. The enrollment in the present major in Fashion Merchandising is 20% of the total, and these young people must be served more effectively to meet the competition of other graduates majoring in this area who are entering the business world.

The other courses are also covered at this time by staff and existing facilities.

TCRA (new course)

21. (I) (core) MAN AND CLOTHING

The impact of clothing and textiles, its sociological, psychological and economic implications to the individual and society, seen in historic and contemporary perspective. Prerequisites: Sociology 25, Psychology I, Economics 25, or by permission of instructor. 3 class hours. Credit, 3. Miss V. Davis.

Objectives:

1. To provide a comprehensive understanding of the role of clothing in our lives and in society.

2. To relate psychological and sociological theories to clothing for the individual.

3. To provide an understanding of the textile and clothing industry as a dynamic force in world economy, both historically and contemporaneously.

4. To relate these forces to present day consumer problems in clothing selection.

Rationale:

The clothing customs, needs, desires and demands of American families today are influenced by a multitude of circumstances. Clothing, to man and society, has been and is something more than a superficial covering for the body. It has been affected by religion, morals, politics and most of our social and economic institutions through the ages. We all wear clothes, but few people know why. Nor do they have an understanding of the interrelation of these forces upon clothing, and the dynamic effect which clothing and textiles have on man. This course will provide an introduction and comprehensive view of the psychological and socio-economic impact of clothing, and relate this to contemporary consumer market problems.

Outline and Course Content:

A. Theories related to the origins of clothing)
) In Interrelated
B. Sociological implications of clothing) Historic and
) Contemporary
C. Psychological implications of clothing) Perspective
)
D. Economic implications of clothing and textiles)

E. Consumer problems in clothing selection, related to family needs, values, etc., technological and distributive changes.

SUPPORTIVE PUBLISHED MATERIALS

References:

Bendix and Lipset, Class, Status and Power

Biesang, J. and M., Modern Society, New York, Prentice-Hall, 1954

Campbell, Persia, The Consumer Interest, New York, Harpers, 1949

Cunnington, C. W., Why Women Wear Clothes

Dewhurst and Assoc., Americas Need and Resources, New York, Twentieth Century Fund, 1955

Dingwall, Eric, American Woman

Flugel, J. C., The Psychology of Dress

Hiler, Hilaire, From Nudity to Raiment

Hurlock, Elizabeth, Adolescent Development, New York, McGraw-Hill Book Co., 1949

Lindsey, Gardner, Handbook of Social Psychology

Lynes, Russell, A Surfiet of Honey

Lynes, Russell, The Tastemakers, New York, Harper Brothers, 1954

McMahon, Social and Economic Patterns of Living

Merton, Robert, Social Theory and Social Structure

Myrdal-Alva, Woman's Two Roles - Home and Work

Norris, R. T., The Theory of Consumer Demand

Nystrom, Paul, Economics of Fashion, New York, Ronald Press Co., 1931

Ogburn W. and Nimkoff, M., Technology and the Changing Family, Boston, Houghton Mifflin Co., 1955

Rudolfsky, Bernard, Are Clothes Modern?, Chicago, Poole Bros., 1947

Veblen, T., Theory of the Leisure Class, New York, MacMillan Co., 1899

Whyte, W. H., The Organization Man, New York, Simon and Schuster, 1956

Wingate, J. W., and Corbin, Arnold, Changing Patterns in Retailing, 1956

Wolff, Janet, What Makes Women Buy?, New York, McGraw-Hill, 1958

Barber, B. and Label, Fashion in Women's Clothes and the American Social System, Social Forces, Dec. 1952

Barr, Estelle, A Psychological Analysis of Fashion Motivation, Arch. of Psychology, No. 111, 1929

Bliss, Sylvia, The Significance of Clothes, American Journal of Psychology, Vol. 28, 1916

Bogardus, E. S. The Social Psychology of Fads, Journal of Applied Sociology, Vol. 8, 1923-24

Burck, Gilbert, What Makes Women Buy? Fortune, August, 1956

Dunlap, Knight, The Development and Function of Clothing, Journal of Genetics, Vol. 1, 1928

Flaccus, L. W., Remarks on the Psychology of Clothes, Journal of Genetic Psychology, Vol. 1, 1916

Harms, Ernst, The Psychology of Clothes, American Journal of Sociology, Vol. 44, 1938

Hartman, George, Clothing: Personal Problem and Social Issue, Journal of Home Economics, June, 1949

Jack and Schiffer, The Limits of Fashion Control, American Sociological Review, December, 1948

Monroe, Day., Clothing Consumption, Proceedings of the 13th Conference of College Teachers of Textiles and Clothing, Central Region, 1957

Rosencranz, Mary Lou, Sociological Aspects of Clothing Studied in East Lansing, Michigan, Journal of Home Economics, Vol. 41, 1949

Simmel, George, Fashion, American Journal of Sociology, Vol. 62

Sundquist, Alice and Mary Whitlock, The Consumer Speaks - About House Dresses, Journal of Home Economics, Nov. 1946

References: (continued)

Thomas, W. I., Psychology of Modesty and Clothes, American Journal of Psychology, Vol. 5
Psychology of Women's Dress, American Magazine, 1908-09
Dress, Fashion, Guilds, Encyclopedia of Social Sciences
U. S. Dept. of Agriculture, Family Clothing Inventories and Purchases by Place of Residence, May 1951
Brew, Margaret, American Clothing Consumption 1879-1909, University of Chicago, 1945
Monroe, Day et al., Family Income and Expenditures, U.S.D.A., Misc. Pub. 465 1941
Pennel, Maryland et al., Family Expenditures for Clothing, U.S.D.A., Misc. Pub. 442, 1941
Ryan, Mary, Psychological Effects of Clothing, Part I, II, III, Cornell University Experiment Station Bulletins, 1952-53
Stone, G. and Form, W., Clothing Inventories and Preferences Among Rural and Urban Families, Michigan State Univ., Bulletin 246, March 1955

Research:

Gates, Ruth E., Clothing and Social Mobility, Unpublished Ph.D. dissertation, College of Home Economics, Pennsylvania State Univ., 1960
Lapitsky, Mary, Clothing Values and Their Relation to General Values and to Social Security and Insecurity, Unpublished Ph.D. dissertation, College of Home Economics, Pennsylvania State University, 1960
Silverman, Sylvia, Clothing and Appearance: Their Psychological Implications for Teen-Age Girls, Unpublished Ph.D. dissertation, Teachers College, Columbia University, 1945
Vener, Arthur, Adolescent Orientations to Clothing: A Social-Psychological Interpretation, Unpublished Ph.D. dissertation, Michigan State University, 1957

TCRA (new course)
(second year)

42. (II) FASHION IN RETAILING AND BUSINESS

A study of the retailing and professional opportunities associated with clothing, textiles, home furnishings and related merchandise. Analysis of the function of retailing, types of retail organizations and their internal organizations. Prerequisites: Economics 25. 3 class hours. Credit, 3. Miss Niederpruem.

Objectives:

1. To acquire a knowledge of the scope of executive career opportunities in fashion retailing and related areas.

2. To develop an appreciation and understanding of professionalism and high ethical business standards.

3. To study the functions of retailing.

4. To become familiar with the various types of retail organizations.

5. To observe first hand the functions and operations of a small department store.

6. To analyze in an organized way these functions and operations.

7. To become oriented to store environment.

Rationale:

There is a real need for sophomores majoring in fashion in retailing and business to have a basic course in the fundamentals of this area of retailing and business. At this level students should develop understanding and appreciation of this professional area of study so that they can begin to make the necessary application to all the courses in this professional sequence.

Content:

1. Scope of professional opportunities in area.

2. Interpretation of professionalism and business ethics.

3. Delineation of the functions of retailing.

4. Analysis of internal store functions.

5. Present trends and developments in fashion in retailing and business.

SUPPORTIVE PUBLISHED MATERIALS

References:

Buros, O. K. (Ed.), Mental Measurements Yearbook, 1953

Editors of Fortune, America In The Sixties, Harper Torchbook Edition, New York, 1960

Engelsman, Ralph G. & Naomi L., Keys to Modern Selling, N. Y. D. McKay Co., 1955

Entenberg, Robert David, The Changing Competitive Position of Department Stores in the U. S. by Merchandise Lines, Pittsburgh, University of Pittsburgh Press, 1958

Duncan, D. J. and Phillips, C. F., Retailing: Principles and Methods

Harriman, Margaret Case, And The Price Is Right, Cleveland and N. Y., The World Publishing Co., 1958

Herndon, Boonton, Bergdorf's on the Plaza, Alfred A. Knoph, 1956

Horan, James David, The Pinkerton Story, N. Y., Putnam, 1951

Hoving, Walter, The Distribution Revolution, New York, Ives Washburn, Inc., 1960

Kelley, Pearce Clement & Briscoe, Norris B., Retailing Basic Principles, N. J., Prentice-Hall, 1957

Leterman, Elmer G., The New Art of Selling, N. Y., Harper, 1957

Murphy, John D., Secrets of Successful Selling, Englewood Cliffs, N. J., Prentice-Hall, 1956

Packer, Harry Q., Basic Retailing, N. Y., Prentice Hall, 1954

Robinson, Blacker and Logan, Store Salesmanship, Englewood Cliffs, N. J., Prentice-Hall, Inc., 1959

Robinson, O. Preston, Robinson, G. & Matthews, Store Organization and Operation, N. J., Prentice-Hall, 1957 (2nd ed.)

Robinson, O. Preston, Robinson, C. H., Successful Retail Salesmanship, N. Y., Prentice-Hall 1955 (2nd ed.)

Stanton, Edward M., Branch Stores, N. Y. National Retail Dry Good Assoc., 1955

Wheeler, Elmer, Tested Retail Selling, N. Y., Prentice-Hall, 1956 (2nd ed.)

Wingate, John A. and Corbin, A., Changing Patterns in Retailing, Homewood Illinois,; Richard D. Irwin, Inc., 1956

N.R.D.G.A., Employee Testing for Retail Stores, N.R.D.G.A., Personnel Group, New York, 1951

Cox, Reavis, The Marketing of Textiles, Washington, D. C.: The Textile Foundation, Inc., 1938

Frank, B., Progressive Apparel Production - With Case Problems, Fairchild Publications, Inc., 1953

Howell, L. D., Marketing and Manufacturing Services and Margins for Textiles, Washington, D. C.: U. S. Dept. of Agriculture, Tech. Bulletin No. 1062, Sept. 1952

Levine, L., The Womens' Garment Workers, A History of the I.L.G.W.U., B. W. Huebsch, Inc., 1924

Publications including: Stores, Department Store Economists, Display World, Printer's Ink, Womens Wear Daily, Vogue, Harpers Bazaar, American Fabrics, etc.

MFE (new course)

50. (II) (core) FAMILY MANAGEMENT AND DECISION MAKING

Management and Decision-making in the Family. A presentation of the integrated nature of home management; concerns values and goals as reflected in decision-making about family resources. 3 class hours, Credit, 3. Staff.

Objectives:

1. To know and understand what management is.

2. To be able to identify values and goals operative in home management.

3. To be able to identify those aspects of family living that can be managed.

4. To become familiar with and be able to relate managerial concepts to family living.

Rationale:

The family is regarded as the point of reference for this course. Management is a universal family function which concerns values and goals as reflected in decision-making about utilization of family resources. Home management as a field of learning is fundamentally philosophical thinking in relation to the family's clarification, identification, and pursuit of values and goals. A study of family management is for the purpose of improving one's understanding of management and furthering one's understanding of family behavior. With increased knowledge, it is now possible to teach management through formal education rather than relying upon trial and error, observation and experience. The importance of management in the family is recognized because of its extensive effects in determining the quality of life which the individual and the family achieve.

Outline and Course Content:

A. Operational bases of course

1. This course taught from the following bases

a. Role differentiation of family members
b. Family life cycle
c. Psycho-socio-economic characteristics of families
d. Cross-cultural characteristics

2. Subject matter content meaningful when all parts of it are interrelated and activated.

3. A family's management is related to the larger community.

50. (II)

Outline and Course Content: (continued)

B. Subject matter content

1. Definition of management

2. Criteria for identifying managerial activities

3. Purposes of managerial activities

a. Ordering of the moral relationships
b. Ordering of the routines and artifacts of the home

4. Decision-making functions of a manager

a. Value clarifying
b. Goal defining
c. Planning
d. Integrating
e. Facilitating
f. Evaluating

5. Decision-making

a. Centrality of decision-making in home management
b. Degrees of deliberation and levels of rationality in decision-making

6. Values

a. Definition
b. Role of values in home management
c. Clarifying values
d. Managing for achieving values

7. Goals

a. Goals and their relationship to values
b. Clustering and priorities of goals
c. Varying goals over the life cycle

8. Process of home management

a. Theoretical frameworks of process
b. Family managerial patterns
c. Managerial functions of different family members
d. Identification of resources managed
e. Assessing and allocating resources

SUPPORTIVE PUBLISHED MATERIALS

References:

Bross, I. J. D., Design for Decision
Cohen, J. B. & Hanson, A. W., Personal Finance
Cushman, E. M., Management in Homes
Fitzsimmons, C., Management of Family Resources
Fitzsimmons, C., & White, N., Management for You
Galbraith, J. K., The Affluent Society
Gilbreth, L. M., Thomas, O. M. & Clymer, E., Management in The Home
Gordon, L. J., Economics for Consumers
Gross, I. N. & Crandall, E., Management for Modern Families
Hall, O. A. & Paolucci, B., Teaching Home Economics
Johnson, D. M., The Psychology of Thought and Judgment
Katona, G., Psychological Analysis of Economic Behavior
Lippitt, R., Watson, Jr., & Westley, B., The Dynamics of Planned Change
Nickell, P. & Dorsey, J. M., Management in Family Living
Starr, M. C., Management for Better Living
Updegraft, R. R., All The Time You Need

Journals:

Fortune
Journal of the American Dietetic Association
Journal of Business
Journal of Farm Economics
Journal of Home Economics
Public Administrative Review
Quarterly Journal of Economics
Rural Sociology
Social Work
Sociology and Social Research

Research:

Bayton, J. A., Psychological Research on Home Management Problems
Davis, M. J., Decision-Making in Relation to Performance of Household Activities in New York State Home
Proceedings of Conference on Values and Decision-Making. Dept. H. Mgt. & . . C. D., Michigan State University

TCRA (new course)

66. (II) APPAREL AND HOME FURNISHINGS ACCESSORIES

Materials, manufacturing processes, resources and markets of apparel and home furnishing accessories. Quality differences and essential selling information in ceramics, glassware, metals, jewelry, leathers, furs, plastics and furniture. 2 class hours, 1 2-hour laboratory. Credit, 3. Staff.

Objectives:

To develop an understanding and/or appreciation:

1. of the materials used in non-textile merchandise.

2. for the manufacturing processes that provide quality differences.

3. to be able to evaluate essential selling differences.

4. of the resources and markets for apparel and home furnishing accessories.

Rationale:

This course is designed to acquaint the students with materials and manufacturing processes of non-textile nature in apparel and home furnishing accessories. This background gives basic recognition factors and quality differences in selection for personal use and is essential for the individual who anticipates being professionally associated with selection, distribution and promotion of these items.

Outline:

I. Furs: structure, processing, identification and classification, price and quality, construction, designers, government labeling regulations, care and factors affecting price and quality.

II. Leathers: source, processing, identification and classification, care, factors affecting price and quality.

A. Shoes: designers and manufacturers, lasts and sizes, construction.

B. Luggage: designers and manufacturers, construction.

C. Handbags: designers and manufacturers, construction.

D. Gloves: designers and manufacturers, construction.

III. Glassware: types, manufacturers, styling, structural and decorative processes, finishing, pricing factors.

IV. Ceramics: identification and classification of types, materials used, processing and shaping, pricing factors, manufacturers.

66. (II)

Outline: (continued)

V. Silverware: flatware and holloware - sterling and plated, manufacturing processes, designing, pricing factors, manufacturers, care.

A. Other metals: Stainless Steel, Dirilyte, Pewter, Copper, Brass, Bronze, Aluminum, Wrought Iron.

VI. Jewelry: identification of metals used, stone setting, finishing, costume and precious jewelry, designers and manufacturers.

VII. Plastics: classification, manufacturing processes, styling, care, labeling, manufacturers.

VIII. Furniture: furniture classification, wood types, other materials used, construction types, designers and manufacturers.

SUPPORTIVE PUBLISHED MATERIALS

References:

Baxter, Wm. T., Jewelry, Gem Cutting & Metalcraft, New York, Whittlesey House, 1950
Chambers, Bernice, Color & Design. Fashion in Men's & Women's Clothing & Home Furnishings, Englewood Cliffs, N. J., Prentice-Hall, Inc., 1951
Chambers, Bernice, Fashion Fundamentals, Englewood Cliffs, N. J., Prentice-Hall, Inc., 1947
Gillespie, K., Home Furnishing, Englewood Cliffs, N. J., Prentice-Hall, Inc., 1953
Gillespie, K., Fashion Accessories, A Non-Textile Work Manual, Englewood Cliffs, N. J., Prentice-Hall, Inc.
Goldstein, Harriet, & Goldstein, Vetta, Art in Every Day Life, New York, The Macmillan Co., 1954
Hallowood, Bernard, The Things We See #4 "Pottery & Glass", Harmondsworth, Middlesex, Penguin Book
Nutting, Wallace, Furniture Treasury, Vol. I & II, New York, The Macmillan Co., 1948
Taylor, Sally, Ceramics for the Table, New York, Fairchild Pub. Co., 1950
Waugh, Sidney, The Art of Glassmaking, New York, Dodd Mead Co., 1939
Wingate, Isabel B., Gillespie, Karen R., & Addison, Betty G., Know Your Merchandise, New York, McGraw-Hill Co., 1953
Kates, H. G., Luggage & Leather Goods, New York, Luggage & Leather Goods Manufacturers of America, Inc., 1948

Manufacturers provide pamphlets, filmstrips, films, exhibits, demonstrators etc, covering developmental production, manufacturing processes, quality differences & consumer information. Trade periodicals are also excellent sources of current developmental materials.

MFE (new course)

74. (II) CONSUMER ATTITUDES AND DEMAND

Study of the motives, attitudes and expectations of consumer behavior as influencing variables operating within and on the market. Prerequisites, Economics 25, General Psychology I, Sociology 25 or by permission of the instructor. 3 class hours. Credit, 3. Miss Merchant.

Objectives:

1. To present market principles and problems through an analysis of consumer economic behavior.

2. To study the motives, attitudes and expectations of consumers which contribute to the market structure and performance.

3. To examine current research methods and techniques used to measure the autonomy of consumer behavior.

4. To relate this study to the specified areas of foods, clothing and textiles and household equipment.

Rationale:

For many years, consumer expenditures were limited to the necessities of survival...food, shelter, clothing. Today, the role of the consumer is fundamentally different. Economic and environmental factors allow the freedom of choice...the power of decision-making. The very fact that consumer demand depends not only on ability to buy but also, on willingness to buy means consumers have some latitude of action. It is this decision making action which is of vital importance to the distribution process.

It is not enough to only analyze the results of this human behavior. It is necessary also to study the "why" of this behavior...motives, attitudes, opinions, expectations all influence actions...and thereby, what happens in and to a given market structure.

Outline and Course Content:

A. Principles of economics and the behavioral sciences as they relate to understanding consumer economic behavior.

B. Principles of distribution and forces within the market firm which influence the consumer in terms of decision, values, satisfaction and action. (Example: Advertising, grading, labeling, discount)

C. Current aspects of consumer attitude and behavior as related to food, clothing and textiles and household equipment.

D. Relationship of consumer behavior theories to the economic theories of demand.

E. Internal and external environments which condition consumer purchases.

F. Understanding the direction of changes in demand through consumer knowledge.

G. Evaluation of current consumer research methods.

References:

Campbell, Persia, The Consumer Interest
Cheskin, Louis, How To Predict What People Will Buy
Clark, L. H. (Ed.), Volumes I, II, III, Consumer Behavior
Hattwick, How To Use Psychology For Better Advertising
Katona and Mueller, Consumer Attitudes and Demand
Harvard University, The Tobé Lectures in Retail Distribution
Katona, George, The Powerful Consumer

Research Centers and Journals, etc.:

American Economic Review
American Marketing Association
Federal Reserve Board
Institute for Social Research...University of Michigan
Journal of Marketing
National Bureau of Economic Research
Social Science Research Council

TCRA (new course)

76. (II) HISTORY OF DECORATIVE ARTS

A study of style periods in historic context. Their aesthetic contributions. Emphasis on developments in western dress, furniture and furnishings Illustrated lectures. Study tours. Prerequisite: TCRA 23, or by permission of instructor. 3 class hours. Credit, 3. Mrs. Jarvesoo.

Objectives:

To provide students with:

1. Comprehension of the characteristics of great style periods.

2. Understanding of the factors that influence design changes. (Social milieu, intellectual setting, institutional forces, aesthetic needs)

3. Insight on how clothes and furniture reflect the mentality and ideals of the age.

4. Knowledge on how ideas migrate and how material things facilitate cultural exchange.

Rationale:

This course adds depth to the studies in textiles, clothing and related art fields. It adds to the student's intellectual cultivation. It broadens her knowledge in history and makes learned historical facts more meaningful.

Outline and Course Content:

A. Introduction

B. Antiquity
Sumerian, Egyptian, Minoan, Assyrian, Hellenic, Late Egyptian, Hellenistic, Roman

C. Medieval
Early and Late Byzantine

D. Renaissance
Italy, Spain, France, Tudor England, Jacobean, Carolean

E. Baroque
France, England, Early American

F. Rococo
France - Louis XV, French Provincial, England - Queen Anne, Chippendale, Colonial American

G. Neo Classic
France - Louis XVI, England - Sheraton, Heppelwhite, Adam

76. (II)

Outline and Course Content: (continued)

H. Classicism
France - Directoire, Empire, England - Regency, American - Greek Revival

I. Nineteenth Century
England & American - Victorian, Biedermeyer, Art Noveau

J. Modern to the Present
Scandinavian Influences, Eastern Influences

References:

Aronson, J., The Encyclopedia of Furniture, New York 1938
The Beginnings of Porcelain in China, Chicago 1917
Clifford, C., Period Furnishings, 5th edition, New York 1949
Crawford, M. D. C., One World of Fashion, New York 1955
Drepperd, C. W., American Clocks and Clockmakers, New York 1947
Fossing, P., Glass Vessels Before Glass-Blowing, Copenhagen, 1908
Gropius, W., Banhans, 1919-1928, New York 1938
Gorsline, D., What People Wore, New York 1952
Hartshorne, A., Old English Glasses, London 1897
Honey, W. B., Dresden China - An Introduction to the Study of Meissen Porcelain, London, 1934
Hunter, G. L., Decorative Textiles, New York 1918
Jacobstahl, A., Greek Pins and Their Connection with Europe and Asia, New York, 1956
Joel, D., The Adventure of British Furniture 1851-1951, Toronto, 1953
Kisa, A., Das Glas im Alter Funce, Leipzig 1908
Maass, J., The Gingerbread Age, New York 1951
Modern Plastics Encyclopedia and Engineers Handbook, New York 1950
McLearin, H., American Historical Flasks, Corning 1953
Pazawiek, G. E., Glaser der Empire and Biedermeyerzeit, Leipzig 1933
Pevsner, N., Pioneers of Modern Design, New York 1949
Rose, J. H., American Pressed Glass of the Lacy Period, 1825-1850 Corning, 1954
Reade, B., Regency Antiques, London, Toronto 1953
Sirelias, O. T., The Ryijy - Rugs of Finland, Helsinki 1926
Steenberg, E., Modern Swedish Glass, Stockholm, 1949
Truman, N., Historic Furnishings, London, New York 1950
Two Hundred Years of American Blown Glass, New York 1950
Wyler, The Book of Old Silver - English, American, Foreign, New York 1953
Yarmon, M., Early American Antique Furniture, New York 1953

Other References:

American Art Directory
Art Index

Magazines:

Antiques
Arts
Furniture Forum
Craft Horizons

TCRA (new course)

85, (I) FASHION INDUSTRIES

Organization and structure of the fashion industries in the primary and regional markets producing ready-to-wear and apparel accessories. Factors affecting the designing, production, distribution and consumption of clothing. Emphasis on the promotion process in fashion merchandising. Prerequisites: Marketing 71. 4 class hours. Credit, 4. Miss V. Davis.

Objectives:

1. To develop an understanding and appreciation of the organization for the production, distribution and promotion of fashion merchandise.

2. To analyze the psychological, economic and social factors which affect contemporary fashions; to know and use the resources which deal with these factors.

3. To gain an understanding of the special problems of retail advertising and sales promotion of fashion merchandise.

4. To develop an appreciation for evaluation and selection of media, external and internal for promotion.

5. To acquire an understanding of sales promotion techniques and procedures.

6. To become familiar with the sources of current retailing data concerning market resources, contemporary trends in clothing consumption, retail advertising and promotion.

Rationale:

There has long been a need for a course in this area encompassing the many aspects of the fashion business. There are unlimited opportunities for positions in this field which are open to women who have training in clothing, textiles, fashion and retailing. This encompasses the broad field of clothing consumption in our economy.

Content:

I. General factors - psychological, economic and social, which affect fashion at any time.

II. Specific factors - psychological, economic and social which are affecting the clothing industries today; which are affecting the production and distribution of fashion merchandise.

III. Possible future developments in the fashion industries.

IV. Organization of Fashion Production

A. Styling fashion merchandise

B. Place of Parisian, English, Italian designers in fashion

C. American designers and manufacturers

D. Government Production in America

E. Export-import conditions and significant implications.

V. Organization of Fashion Distribution and Promotion

A. Buying fashion merchandise - regional markets

B. Promoting fashion merchandise

1. Advertising and publicity

2. Ten basic steps in sales promotion planning

3. Types of promotional themes

4. Special purpose publicity devices

5. Criteria for selecting media for promotion

6. Evaluation and selection of media

7. Fashion coordination

C. Selling fashion merchandise

VI. Development of Fashion Trends

A. Fashion cycles

B. Fashion Counts and Surveys

VII. Fashion Resources

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66 Million More Americans, Fortune, August, 1953

TCRA (new course)

93. (I) RETAILING FIELD EXPERIENCE

A 7-8 weeks off-campus supervised and coordinated training-work program in a cooperating department store. Experience in selling supervision or merchandising followed by evaluation of training, work experience, leadership development and individual progress. Prerequisities: Marketing 71, Fashion in Retailing and Business, Textiles I, Apparel & Home Furnishing Accessories, and 6-8 weeks selling experience; or permission of instructor. Credit, 6. (This course will be blocked in the same manner as the present student teaching course.) Miss Niederpruem.

Objectives:

1. To provide an overall picture of retailing in a peak period.

2. To furnish opportunity for training and work experiences in management in the area of selling.

3. To provide the occasion for the development of leadership qualities.

4. To allow the student to show individual progress in a work situation.

5. To provide organized means for evaluation of training, work experience, leadership development and individual progress.

Rationale:

In this type of program the educational value is immeasurable. This type of course is supervised by University Faculty and the training in the work situation is done by qualified retail personnel and supervised by the Director of Executive Development in each store. Only large department stores who have well established junior executive development programs under the supervision of professional retail executives are used for such work-study programs.

Current research supports the premise that work-study programs in colleges are the most effective type of background for development of retail executives and for more rapid progress in retail management. This type of program provides application of theory and also allows the students to bring back to the classroom valuable training and experience which enrich their campus courses.

Content:

This course will be blocked in the manner of the present practice teaching program. The School of Home Economics will offer two courses accelerated the first six weeks of the fall term; then the students will be off campus from November 1 to December 23 (approximately). There will be a period for summarization and evaluation in campus classes at the end of the term.

During the training and work experience all students are visited by University faculty during the third and fourth week. Students report their progress by letter three times during their work period. A two hour conference is planned for each student in a store as well as individual consultations both with student and executive supervisor.

Before the students leave campus, they attend classes which prepare them for carrying out the objectives of the course.

Topics:

a. Explanation of training and work experience in management phase of selling supervision or merchandising.

b. Ethics in retail store work.

c. Professional clothing and grooming.

d. Relationships at all personnel levels.

e. Leadership qualifications.

f. Leadership development.

g. Individual production and progress.

h. Methods of evaluation of training, work experiences, leadership development, and individual progress.

UNIVERSITY OF MASSACHUSETTS

Undergraduate Courses

BOTANY 80 (I). Aquatic Vascular Plants
Systematics, ecology and fundamental importance of aquatic plants as a food source for wildlife.
Prerequisites: Botany 1 and 26
2 3-hour class-laboratory periods Credit 3

CIVIL ENGINEERING 85. Water and Waste Water Analysis
Analysis of water relative to its quality for various domestic and industrial uses and analysis of waste water relative to its potentiality of pollution.
Prerequisite: Chemistry 1 and 2.
2 class hours, 1 3-hour laboratory period. Credit 3

CIVIL ENGINEERING 87. Open Channel Flow
A study of steady flow in open channels including backwater curves in natural and artificial channels, hydraulic jump, channel bends and transitions, sediment transport, surges and waves, breakwaters and hydraulic structures.
Prerequisite: C.E. 75.
3 class hours. Credit 3

ELECTRICAL ENGINEERING 78. Principles of Switching Circuits II.
Multi-terminal and iterative circuits; circuit reliability; switching codes; techniques in sequential circuit design with emphasis on synchronous circuits; trends in switching period.
Prerequisite: E.E. 77.
3 class hours, 1 3-hour laboratory. Credit 4

MARKETING 86. (II) Problems in Retailing
Case analysis and decision covering pricing; merchandise management; buying and selling policies; store systems; personnel, accounting control; plant operation.
Prerequisite: Marketing 53.
3 class hours. Credit 3

NURSING 27 (S). Human Growth and Development
The growth and development of the child and responsibilities of marriage and family living. Field practice is afforded in community agencies. Credit 3

PHYSICS 8 and 9. Advanced Introductory Physics for Physics Majors

PORTUGUESE 1 (I) 2 (II) Elementary Portuguese
For students with no previous training in Portuguese. Intensive practice in the language skills. No credits in this course may be applied toward a degree until the close of the second semester, except upon the special recommendation of the Provost.
3 class hours, laboratory. Credit 3

PORTUGUESE 5 (I) 6 (II) Intermediate Portuguese
For students with one year of college Portuguese or equivalent. Training in the language skills: emphasis on speaking and understanding; readings in cultural and literary texts.
3 class hours, laboratory. Credit 3

25 (I) 26 (II) Introduction to Portuguese Literature
Selected masterpieces of Portuguese literature presented integrally, in literary-historical perspective. Conducted in Portuguese. Either semester may be elected independently.
Prerequisites: Portuguese 5, 6, or permission of the department
3 class hours. Credit 3

PUBLIC HEALTH 97, 98. Problems

UNIVERSITY OF MASSACHUSETTS

M E M O R A N D U M

FROM: Graduate Office DATE January 5, 1962

TO Mr. Robert Doolan, Assistant Secretary

The Graduate Council recommends to the President and Trustees the approval of the following new Master's degrees in the School of Business Administration:

Master of Science in Accounting
Master of Science in Finance

Dean Kirshen's explanation for reasons behind need for the new degrees:

"Our M.B.A. degree is a general degree in Management. Very little specialization is permitted. But since we have demands from graduate students for some kind of specialization we have provided that a thesis plus greater flexibility in the selection of courses would be allowed.

At the last annual meeting of the American Association of Collegiate Schools of Business a new set of graduate standards was established; among the items was a positive statement that the M.B.A. was to be used only as a degree "broad in nature and aimed at general competence for over-all management rather than towards specialization." Since we are members of the Association, and I voted for the resolution, we must now restrict the M.B.A. to our own general program and omit the specialization we now permit.

This means that Accredited Schools of Business Administration that wish to have specialized programs, and most of them do, must grant an M.S. degree in whatever speciality is approved, i.e. M.S. in Accounting (or Finance or Insurance or Marketing and so on).

In line with this we recommend that our School of Business Administration be granted the privilege of awarding the Master of Science degree in any approved specialization. To begin, we should like to offer the degree in (1) Accounting and (2) Finance. These are areas in which a student can specialize. Later we shall add Management and Marketing."

The Graduate Council has voted approval of the following new course:

C.E. 257, TRANSPORTATION ANALYSIS AND PLANNING. - The analysis of traffic and transportation engineering problems in highways, railroads, and airports and the planning as related to those facilities; economics of location, of transportation facilities, collection and analysis of traffic engineering data, forecasting travel demands, analysis of vehicle performance in maneuver areas.

Credit, 3.
Mr. Boyer

Prerequisite, C.E. 194

Gilbert L. Woodside
Acting Dean, Acting Dean
Provost

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE EXECUTIVE COMMITTEE

December 12, 1961, 10:30 a.m., Statler Hilton Hotel, Boston

PRESENT: Trustees Healey, Crowley, Whitmore, and President Lederle. Also, Assistant Secretary Doolan

Trustee Healey was elected Chairman pro tem in the absence of Chairman Boyden.

The committee reviewed, in detail, the proposed candidates for honorary degrees to be awarded at Commencement, 1962. Suggestions were submitted from the Alumni Association, the University Faculty and members of the Board of Trustees.

The committee was unanimous in the selection of candidates to be recommended to the Board of Trustees.

The meeting was adjourned at 12 noon.

Robert J. Doolan
Assistant Secretary
Board of Trustees

UNIVERSITY OF MASSACHUSETTS

INFORMAL MEETING

COMMITTEE ON FACULTY AND PROGRAM OF STUDY

COMMITTEE

January 12, 1962, 1:00 p.m., Student Union, Univ. of Mass.

PRESENT: Trustees Haigis, Schuck, Brown, Provost Woodside, Assistant Secretary Doolan. Also, Dean Niederpruem, Professor Goldberg, Dean Field, Dr. Redfern representing the Academic Long-Range Planning Committee

Due to the lack of a quorum, Chairman Haigis declared the meeting an informal discussion session. He called upon Professor Maxwell Goldberg, who is chairman of the Academic Long-Range Planning Committee for the University. Professor Goldberg reported that the Planning Committee has operated through two rather distinct phases. The first phase covered the period from approximately January, 1961 up to October, 1961. He said this was a more deliberate, composite, study period including reviews of books, periodicals, pamphlets and group discussions covering broad areas. It was a period of establishing the philosophy of the committee and they met from week to week with the deans and other administrative personnel.

The second phase was from October, 1961 to the present time. During this period, the committee moved more vigorously covering such areas as the organization of the work of the committee. Dr. Leo Redfern, Director of the Office of Institutional Studies was added to the committee. Dr. Goldberg stated that the committee is working toward an interim report early this year in which the committee hopes to outline the broad approaches discussed during this period. The committee has established a

division of responsibility among the committee members and position papers have been written and presented for discussion to the committee. Other position papers are being written and will be incorporated into the committee's work. The committee is cognizant of both external and internal changes regarding the University and world affairs for both long and short-range effects. It is also aware of the educational relationship which exists between the various disciplines and external changing affairs.

The members of the Trustee Committee on Faculty and Program of Study raised a number of specific questions which they feel quite important for the Academic Committee to consider. Some of these questions cover such areas as -- what is the chronological development of the committee's work and the time period necessary for implementation? What about ongoing relationships during the period of time that the committee is operating? What about admissions policies and the relationship to the growing community colleges of the Commonwealth and the state colleges? What planning is being done in relation to the above colleges? What about the number of graduate schools needed at the University and the establishment of these schools? What about the decentralization of the University throughout the state - perhaps through branch colleges and so on? What about the relationship of University athletic policy versus the academic philosophies? What about the problem of ROTC? What about the policies relative to the gifted student?

The Trustee committee felt that there was a strong need for definitive answers and data to keep the educational leadership

in the Commonwealth. There are hard, realistic, issues that will come before the University in the very near future and the committee

COMMITTEE

felt strongly that the University should be in a position to give positive answers to these issues.

There was a discussion covering the general fields of activity of the Academic Planning Committee and in more specific detail the work of Dr. Redfern and others on the committee. The group also discussed many of the problems facing the University both in the academic and related fields. There was a mutual feeling of necessity and urgency in this matter of both short and long-range planning and the external pressures and effects on the University.

Following the discussion on academic long-range planning, the representatives of the committee left the meeting and there was an informal discussion of the programs of study presented to the group.

Dean Niederpruem presented the proposed curricula for the new School of Home Economics and gave examples and specific details of the philosophy and programming of the School of Home Economics. She outlined the need for the new curricula and the plans of the school for its growth both in quality and in quantity during the coming years.

Following a general discussion covering many phases of the curricula and growth of the School of Home Economics, the committee assured Dean Niederpruem that they appreciated her plan and the needs of her school and felt that the proposed curricula would be an excellent starting point for this growth.

Provost Woodside presented the background on the proposal

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for the establishment of an Institute of Agricultural and Industrial Microbiology. He stated that Dr. Warren Litsky has been very active in both theoretical and applied research in the field and he felt that the institute would be an excellent means of obtaining and organizing further research and development in both the applied and the theoretical areas.

A brief discussion was held relative to the number of institutes that might be established on the campus at the University and it was generally agreed that such means of organized research have definite benefit for the University. Should the number of institutes grow to a sufficient size,they could be combined under an institute research program.

Provost Woodside presented the recommendation to the graduate council for the new masters degrees in the School of Business Administration: the Master of Science in Accounting and Master of Science in Finance. The Provost outlined the basic reasons for the need for these degrees in addition to the general Masters in Business Administration and some of the philosophy behind it.

The last item covered by the committee was the proposed new courses in both the undergraduate and the graduate areas.

The meeting closed at 4:15 p.m.

Robert J. Doolan
Assistant Secretary

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COMMITTEE

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS & GROUNDS

February 16, 1962, 10:30 a.m., Univ. of Mass., Amherst

Chairman Whitmore presiding

PRESENT: Trustees Whitmore, Schuck, Pumphret, President Lederle. Also, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan, and other participants as indicated in the minutes.

Land Acquisition

Chairman Whitmore opened the meeting by reporting that the agricultural land in South Deerfield has gone through the Council for approval.

Judge Blassberg, legal counsel for land acquisition, summarized the legal efforts to date regarding land acquisition. He stated that the Commonwealth now requires two independent appraisals of all property considered for purchase. This will require another appraisal for each of the properties now under consideration.

Treasurer Johnson presented a comprehensive report on the status of the properties under consideration around the campus. In summation, the properties by areas have the following status:

Area to the South and Southeast

All properties have been appraised by Mr. Brody and the reports are on file.

Properties purchased by previous Board of Trustee action are:

1. The First National Bank property on North Pleasant Street.

2. The DePillis property in back of that area.

Properties appraised and may require land taking action:

1. St. Regis Diner - due to a lease with the present tenant, land taking may become necessary to break the lease.

2. Grandonico property (The Little Store) - a similar problem here with a lease to the Laundromat.

3. The Paresky property - current asking price is too high and will probably require land taking.

4. The Wright property - located in a back section west of North Pleasant Street is now held in name by Attorney Siebert of Greenfield - has a high asking price and may require land taking.

Other properties appraised - no specific action at this time.

1. The Webb property - a back piece of property off North Pleasant Street - has two lots - is owned by an elderly couple in their eighties who have requested life tenancy.

2. The Fenton property - on North Pleasant Street - again an elderly person in her late eighties.

3. The Donohue property - in the same area - another retired person.

4. The Britt property - in back of Fenton and Donohue on Maple Street - they have asked the University to consider the moving of the house.

Area to Southwest - All Appraised by Mr. Brody and on File

1. The Tokasz property - approximately 11 acres - asking price very high - recommended for land taking.

2. The Kraska property - same situation as Tokasz - recommended for land taking.

3. Syzmkowicz property - recommended for land taking.

4. In back of the North Hadley Road are three properties:

   a. The Woynar property - looks possible for settlement.

   b. The Brown property - about 20 acres of land - looks possible.

   c. The Doleva property - about 3 acres - we have a 90-day option for purchase.

5. There are approximately 11 or 12 houses in this southwestern area which have not been appraised. An increase in appropriation would be necessary to acquire them.

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Area to the North - Appraised by Mr. Brody

1. The Holmes property - about 16 acres - no specific negotiations to date.

2. The Larned property - about 9 acres - this is the property in which the Lutheran Church of Amherst has an interest. University action may depend upon decisions made with the church group.

3. The Wysocki property - a large piece of property - no specific action to date.

Following the presentation and on recommendation of Judge Blassberg, and on motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that land taking procedures be initiated for the Kraska, Tokasz and Syzmkowicz properties located to the southwest of the campus.

Judge Blassberg will be present at the next Board of Trustees meeting on February 27 in Boston to present the votes to the Board. He will also check in the interim with the Attorney General's Office. Treasurer Johnson will proceed with investigating a second independent appraiser to comply with the new procedure. This appraiser will be presented to the Board for its approval.

Proposed Gift of Land

Gift of Land from Mrs. Fred Wells

Treasurer Johnson reported that Mrs. Fred Wells of Shelburne Falls proposes to will 80 acres of woodland in Shelburne, Massachusetts to the University. The Forestry Department can use the land in its program. It was recommended that Treasurer Johnson suggest to Mrs. Wells a form of bequest that would result in the land coming to the Trustees as a trust under Section 7 of Chapter 75 of the General Laws.

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Campus Information Center

COMMITTEE

Information Booth

It was reported to the committee that the proposed Campus Information Center offered as a gift to the University by the Class of 1961 was not approved by the University Master Planning Committee. The rejection was based upon the need for additional funding by the University and also the need for more specific site planning.

Lutheran Church

Land Requirements - Lutheran Church of Amherst

Reverend Richard E. Koenig and Professor Carl Eiben, representing the Amherst Lutheran Church, joined the committee at this point.

Reverend Koenig distributed a proposal to the University (see Attachment A) regarding the purchase of a portion of the Larned property currently under consideration for purchase by the University. He assured the committee that the New England Synod plans on erecting a church which will be in harmony with the campus and are considering Pietro Belluschi of M.I.T. as the architect.

Reverend Koenig and Professor Eiben were assured by the committee of its desire to cooperate with the churches in the Amherst area and that as a final decision must be made by the full Board of Trustees, no decision could be made by the committee. The Lutheran Church should receive an answer soon after the next Board meeting on February 27th.

After the church representatives left, a discussion was held on the merits of the request. It was felt that the church presented a good case and has the necessary financial backing to do a good job. It was pointed out to the committee that the University Master Planning Committee recommended that the church be allowed approximately two acres at the south end of the property adjacent

to the Montague parcel.

It was decided that the committee would recommend such action to the Board if this decision on allocation of land is agreeable to the planning consultant, Sasaki Walker & Associates, Inc. The Secretary is to obtain this information prior to our Board meeting on February 27th.

1963 Dining Facilities

Dining Facilities

Dean Field joined the committee to discuss the recommendations on the dining facilities for 1963 by the Committee on Housing and Dining Facilities (Attachment B).

There was agreement on the need for the facility to be located in the present men's dormitory area and discussion was held regarding the best approach to the project by the University of Massachusetts Building Authority. Trustee Pumphret, as Chairman of the Building Authority, suggested that the facility might be considered as project #3 by the Trustees and the Building Authority and that appropriate steps be taken at the next Board of Trustees meeting to authorize the University of Massachusetts Building Authority to undertake this project separate from the additional dormitory and dining facilities considered in 1964 for the southwest sector.

Report of the University Master Planning Committee

Professor Theodore Bacon, Chairman of the University Master Planning Committee, joined the meeting and presented a summary of the committee's activities.

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COMMITTEE

Mr. Bacon reported that the committee has met formally for twelve meetings since their organization in June 1961. Much of the work has been in conjunction with our consultants and has culminated with the report from them which will be issued in the very near future. The planning consultants are Sasaki Walker & Associates, Inc. of Watertown, Massachusetts.

This report is a preliminary study of our current master plan and projected thoughts for future expansion. Mr. Bacon cautioned the committee that this report is not to be considered as a master plan but as an evaluation of the present program and a projection for action in the future.

The consultants have recommended deviation from the Shurcliff plan in circulation for both vehicular and pedestrian traffic. They have also pointed out the need for the University to establish both educational goals and philosophy and enrollment goals.

Mr. Bacon reported, also, that sufficient copies of this report will be available for Trustees and University administration.

Project Status Report

Mr. Hugill joined the meeting to present the current status of building and construction projects on the campus. The committee reviewed with Mr. Hugill each project listed and discussed any problems associated with them. In summary, Mr. Hugill reported that the total report showed approximately $21,000,000 of completed projects with another $25,000,000 in design or under construction.

COMMITTEE

Other Business

As the Buildings and Grounds Committee can only recommend to the Board, and the final vote is established with the full Board of Trustees, the committee went into executive session for the purpose of discussion of proposed names for campus buildings. Many distinguished candidates were considered.

Inspection of Completed Facilities

The committee inspected the controls for the boilers at the Power Plant and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the Heating and Ventilating Controls, State Project U-702-18, for the boilers in the Power Plant be accepted subject to correction of existing conditions that are on file in the Construction Engineer's Office.

The committee inspected the new University Infirmary and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the acceptance of the Infirmary, State Project U-58-4, as completed in accordance with the plans and specifications for the project.

The meeting was adjourned at 4:30 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary

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UNIVERSITY OF MASSACHUSETTS

COMMITTEE

STATEMENT

The Amherst Lutheran Church, as it is currently known, is a project of the Atlantic District of the Lutheran Church - Missouri Synod, headquarters located at 2112 Broadway, New York 23, New York. The project, which aims to serve Lutherans of all Synods under a cooperative arrangement with the other Synods represented in New England, is under the supervision of the Rev. Victor Albers, Executive Secretary of Missions of the Board of Directors of the Atlantic District, in consultation with the Rev. William Scar, Director of College and University Work for all Lutherans in New England. The Rev. Richard E. Koenig was called to carry out the project in 1961 and arrived in Amherst December 1, 1961. On January 1, 1962 services were begun using rented quarters in the center of Amherst.

The project as conceived by the Atlantic District is to be known as a "town-gown" church which means, obviously, that it is to serve both the students at the University of Massachusetts and faculty as well as townspeople in the vicinity of Amherst. Students at Amherst College and Smith College will also be served by the pastor and the church. Because of the greater number of students and faculty connected with the University, however, the new church will be oriented toward the University.

In order to serve the University properly it is mandatory that the church have land in close enough proximity to the campus to enable students to walk to church. The Atlantic District stands ready to purchase such land for the church when such is available. Following the pattern established in similar situations such as the University of Connecticut, the Atlantic District would then assist the congregation to erect a modern and fully equipped church. As in Connecticut, Lutheran congregations throughout the state have already begun gathering funds to assist in the Amherst work also.

Representatives of the Amherst Lutheran Church are appearing before the Honorable Building and Grounds Committee of the University's Board of Trustees to discuss with it the possibility of purchasing land owned by one Ralph Larned

located north of the present boundries of the University on North Pleasant Street.

While Mr. Larned has stated that he would be willing to sell the land to the Atlantic District, the Amherst Lutheran Church has learned that the Larned property has been selected by the University for purchase in its expansion program. Members of the Amherst Lutheran Church did not feel that land included in the University's program should be purchased without consulting the University. There is a desire on the part of all members to cooperate with the University and do nothing to jeopardize its future or make that future difficult. Accordingly, the members have agreed to abide by the decision of the University's Trustees in this matter.

In attempting to cooperate with the Board of Trustees of the University, however, we would ask the Board to consider our request carefully. The State can not, of course, provide for the spiritual welfare of students on the campus of the University. This under our American system must be done by the churches themselves. But the University would not be transgressing the wall of separation between church and state if it were to take an action which would enable the church to carry out its functions, provided that the University's program is not compromised. Such action would be of direct and positive benefit to the students.

We believe that the future expansion of the University to the north would not be hindered by apportioning all or part of the Larned property for the use of the Lutheran church. In this particular area, the University has the possibility of freedom in expansion more than in any other area.

Accordingly, the Amherst Lutheran Church on behalf of the Atlantic District of the Lutheran Church - Missouri Synod respectfully requests that the Board of Trustees of the University advise it in the matter of the Larned property. In the name of the District we on our part pledge to erect a building which will enhance the over-all appearance of the University and maintain such building as an asset to the University's appearance.

February 16, 1962

UNIVERSITY OF MASSACHUSETTS

FROM Student Personnel Administration — January 12, 1962
Committee on Housing and Dining Facilities

TO University Master Planning Committee

SUBJECT Recommendations for Dining Facility 1963

****

We are glad to learn that it is anticipated that this building will be located between French and Fernald Halls. It will be primarily a facility for meal preparation and meal service, with 1000 seats and capacity to serve approximately 2500 students.

At the risk of listing some obvious considerations, the Committee offers the following recommendations and requests the opportunity to discuss these matters with the architect from time to time as plans progress:

The dining hall should be designed (1) to meet the convenience of the students whom it serves, (2) to provide pleasant and attractive surroundings where the practice of social amenities and table conversation can be fostered and, (3) of course, to provide efficient food preparation and service.

It is recommended that the building contain a main floor and a lower floor. One central kitchen with three serving counters for lines leading to dining rooms of varying sizes for flexibility in use (occasional group meetings at meals, etc.). Most students prefer rooms which are not large. Recommended:

2 lines lead to 2 large rooms,	300 seats each	600
1 line lead to 3 - 4 rooms	100 seats } with room divider	
	40 seats } wall between	
	100 seats	
	160 seats	400
	Total	1000 seats

Tables should be designed to permit conversation and social intercourse--each table to seat 6 or 8 persons.

Wooden furniture is preferred.

The building should be air conditioned for satisfactory use throughout 12 months of the year.

Entrance should be convenient for pedestrian traffic from residences at northeast and southeast and from academic areas at west.

At each lobby entrance there should be convenient and adequate coat rooms, and rest rooms for men and women.

Traffic flow to three serving lines should go from a central or single area to permit flexibility in use of dining rooms.

Main floor to include:

Central kitchen with supervisor's office adjoining with telephone and public address system.

and

Preparation areas (Continued)

Preparation areas including walk-in refrigerator at same floor level.
All areas must have ample aisles for traffic flow.

(1) In kitchen - ovens
broilers
steamers
(2) Off kitchen - vegetable preparation
salad preparation
(3) Off kitchen - dessert preparation

Adjoining pot-washing area.

Main floor - or - consider lower level:

A single dishwashing area, either on main level or on lower level, with conveyor elevator. Lower level would minimize noise and confusion.

Refrigerated garbage storage and garbage can-washing area.

Lower level to include:

Bake Shop - area large enough for 5000 persons and expandable to serve 10,000.

To include: Refrigeration, holding boxes,
Rotating ovens, proof-boxes, mixers, doughnut equipment, etc., and dumb-waiter lifts to dessert preparation room.

Receiving area - Covered and enclosed loading platforms.

Dry storage - for 1 month's supplies.

Refrigerated storage - for 1 week's supply.

Freight elevator to central kitchen.

Regular employees' dressing rooms, showers, lockers, for men and women.

Student employees' dressing rooms, coat racks, rest rooms, etc.

Fallout shelter planning, if directed by Commonwealth.

Appended is a tentative checklist of equipment requirements which building plans should incorporate.

Committee:
Helen Curtis, Dean of Women, Chairman
William Field, Dean of Students
William Burkhardt, Assistant Dean of Men
Richard Jennings, M. D., Univ. Health Service
John F. Martin, Manager, Univ. Dining Halls

KITCHEN — STAINLESS STEEL — (Gas-Steam-Electric-Alr) (Corrosion-Water-Exhaust) (Tile Walls-Lighting-Outl.) (Tile Floor-Rough in front) (at Fryers-Vent Fans-Fire) (Drainguishers-Emergency) (Lighting-Clocks.)

Hood overall
Roast Ovens 2 Deck
Range - Flat Top
Range - Grill Top
Fryers
Thermolaisers — Fire Ext. - Safety
Steamers
Kettles - Stock - Steam
Kettles - Tilting
Cook Tables & Sinks — Under score - shelves below Ovens
Mixer Floor Type
Mixer Table Type
Slicing Machine Auto
Tenderizer
Scales Portion
Patty Former (Burgermeister)
Can Openers
Broilers
Ice Machine
Hand Washing Sinks Foot Operated
(4) Walk-in Refrigerators - Chef w/Freezer Dairy-Veg.-Freezer — Outside Charts
Dry Storage
Dietitian's Office Supervisor Office
Janitor's Room
Time Clocks Reg. Station

VEGETABLE PREPARATION AREA — STAINLESS STEEL — (Tile Walls-Floor) (Lighting) (Ventilation)

Potato Peeler
Potato Peeler Sinks double
Double Sinks Other
Work Table Shelf Below
Food Cutter Chopper
Food Cutter Quilheim
Refrigerator Walk-in Wall Chart

POT AND PAN ROOM — STAINLESS STEEL — (Tile floor-Walls) (Lighting-Ventilation)

Pot and Pan Rack Storage Clean
Double Sink
Tables both ends of sinks
Auto. Pot & Pan Washer
Hand washing sink (foot operated)

DESSERT PREPARATION ROOM — STAINLESS STEEL — (Tile floor-Walls) (Light.-Ventilation)

Dumb waiters from lower floor bakery
Walk-in Refrigerator
Work tables ample amounts
Hand washing sink (foot operated)
Double sink (soaking)
Space for carts rolling equipment

SALAD PREPARATION AREA — STAINLESS STEEL — (Lighting) (Tile Floor-Walls)

Preparation tables - enclosed below (refrigerated) (double sink)
enclosed shelves below
Free standing tables movable
Can Opener
Area for rolling equipment
Area for Pantry (Dish & Tray, etc., Storage)
Hand washing sink (foot operated)

CAFETERIA - Serving Area — STAINLESS STEEL — (Tile Floor-Walls) (Lighting-Ventilation)
Enclosed away from seating area.
Tile Floor

Serving counter longer than present - dividing wall from seating area.

Solid tray rail
Cashier station (where)
Cash Register
Bain Marie (6 pan or 7 pan) (hot foods)
Bain Marie cold foods
Milk dispenser station
Ice Cream Cabinet (stationary or portable)
Bread & Butter dispensing station
Coffee Station (tea - cocoa - juice)
Bun Warmers
Toaster
Counter equipped with (2-3) shelf & sneeze guard
Storage under counters
Back of lines Pass through boxes (hot and cold)
Wash up sink close to each line (wall hung - foot operated)
Serving tray pick up station (lowerators)
Lowerators Dish - Saucer - Salad dish - Dinner plates - Cups
Movable storage trucks Saucer - Salad dish - Dinner plates - Cups

DINING AREA — (Air condition-) (Lighting - Ventilation)

3 Lines serving 300 each (Traffic flow)
Wood tables and chairs
Water Fountain station (glasses)
Condiment Station
Silver Station
Straws Station
Napkins Station
Planters Window Dressing
Access from Dining Area to rear of lines and kitchen
Dish return (Conveyors location)
Janitor service room or rooms
Lobby Coat rooms toilet fac. (Men - Women) Terrazzo floor

DISH ROOMS

1 Central Same level as service or lower level with conveyors

GARBAGE ROOM — Refrigerated — Can washer

RECEIVING AND STORAGE

ASST. MGR. OFFICE

LINEN ROOM — Clean — Soiled

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF COMMITTEE ON RECOGNIZED STUDENT ACTIVITIES

March 2, 1962, 1:00 p.m., Student Union, Amherst

Chairman Schuck presiding

PRESENT: Trustees Schuck, Furcolo, Haigis
President Lederle. Also, Assistant
Secretary Doolan, Dean Field, Dean
Curtis, Dean Hopkins, Dr. Southworth,
Mr. Morrissey, Dr. Gage, Mr. Scott,
Mr. Buck, Reverend Power, Rabbi
Ruchames, Reverend Seely

An informal meeting was conducted in the Colonial Lounge of the Student Union at the University. Trustee Schuck welcomed the representatives of the University and opened the meeting for general discussion by the various individuals representing the functions of student personnel activities on campus.

Each of the people associated with the Student Personnel Services outlined to the committee, not only his basic responsibilities, but also gave specific references to the problems and accomplishments of his function. Because it was conducted on an informal basis, there was opportunity for questions to be raised as different areas were discussed.

Because of the comprehensive range of activities represented by the group meeting with the committee, every phase of student life, other than academic, was covered during the discussions. A summary of the Student Personnel Services is attached to these minutes listing the functions involved and the individuals responsible for the performance of those functions.

The meeting closed with mutual expressions by both the committee and the staff personnel from the University on the benefits derived by meetings of this nature. The life and activities of the

COMMITTEE

student body at the University is of great interest to both groups and through such comprehensive discussions many mutual points of interest were raised and explored.

The meeting was adjourned at 4:30 p.m.

Robert J. Doolan
Assistant Secretary

UNIVERSITY OF MASSACHUSETTS

Meeting of Trustee Committee on Recognized Student Activities
Friday, March 2, 1962, 1:00 p.m., Student Union, U of M

STUDENT PERSONNEL SERVICES

Simply stated, all of the Student Personnel Services are dedicated to aiding the individual student in his efforts to achieve the greatest development; intellectual, personal and moral, of which he is capable during his University career. The experiences and opportunities available to each student, outside the classroom, should be consistent with the basic goals of the University and should serve as a supplement to those of the formal curricula. The entire campus environment in which the student lives should encourage the positive development of his best qualities and the achievement of sound values and the mature acceptance of responsibility. The Student Personnel Services provide the professional assistance to develop this environment as well as providing aid in meeting problems in personal, financial, social and health areas.

MEN'S AND WOMEN'S AFFAIRS

Dean of Women, Helen Curtis
Dean of Men, Robert S. Hopkins, Jr.

The Deans of Women and of Men have a campus-wide concern for all men's and women's affairs as well as providing counseling for individual students in meeting the responsibilities of University life. They are especially responsible for developing good living conditions, sound programs for social living, and the encouragement of responsible government within the University residence halls.

COUNSELING AND GUIDANCE — Director, Dr. J. Alfred Southworth

Individual students are encouraged through personal counseling to develop sound educational and personal plans and in overcoming any barriers or handicaps involved in their realization. Specialized testing and advisement services are offered in a continuous fashion from the pre-college summer orientation program through the student's career on campus in cooperation with the academic divisions and the other personnel agencies.

PLACEMENT AND FINANCIAL AID SERVICES — Director, Robert J. Morrissey

Through the administration of programs of scholarship and financial aid, and the opportunities of part-time employment, individual students are aided in developing their own programs for meeting the costs of University education. Counseling concerning the development of career plans and job opportunities and requirements proceeds from the initial consideration of goals in these areas through the final placement interview for seniors.

HEALTH SERVICES — Director, Dr. Robert W. Cage

Responsibility for the maintenance of student health, both physical and emotional, throughout the campus, is based on the individual relationship of each student with a physician and extends through a broad educational approach to the positive values of good health to all areas of student life.

STUDENT ACTIVITIES — Coordinator, William D. Scott

The coordination of all student activities organized by groups is planned with consideration for the relationship of these activities to a balanced campus life. The facilities and resources of the Student Union are administered to aid in the accomplishment of this broad goal.

RECOGNIZED STUDENT ORGANIZATIONS — Financial Advisor, Edward A. Buck

In carrying out the policies established by the University Committee on Recognized Student Organizations, this office assists groups and their individual members in developing sound organizational and financial procedures.

RELIGIOUS ACTIVITIES — Reverend David J. Power, Chaplain to Catholic Students
Rabbi Louis Kuhmans, Chaplain to Jewish Students
Reverend Albert L. Seely, Chaplain to Protestant Students

The University gives support to the religious life of its students in various ways. It affords the use of University facilities for student groups of all faiths. It cooperates with the official agencies of the three faiths most largely represented at the University by recognizing the contributions of their privately supported chaplains and by giving them facilities and privileges for their work.

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS & GROUNDS

April 3, 1962, 10:00 a.m., Statler Hilton Hotel, Boston

Chairman Whitmore presiding

PRESENT: Trustees Whitmore, Schuck, Pumphret, Cashin, Thompson, President Lederle. Also, Treasurer Johnson, Provost Woodside, Assistant Secretary Doolan and Mr. Nelson Aldrich and Mr. Axel Kaufmann from the architectural firm of Campbell & Aldrich.

Capital Outlay Program

The proposed capital outlay program for the first five-year period was distributed to the committee. It was suggested that the committee review the program and act upon it at a later meeting.

The question was raised as to the student population figures used as bases for the capital outlay program. Mr. Johnson stated that the following figures are the estimates used. (The year indicated is the fiscal year)

1962 - 7,000	1966 - 10,000
1963 - 7,450	1967 - 11,000
1964 - 8,300	1968 - 12,000
1965 - 9,150	

Mr. Johnson reported on the activity of the Deans and the University Master Planning Committee in forming the report. He pointed out that some delay occurred due to studies by the committee in areas related to the program. For example, studies and recommendations are being made toward a higher utilization rate of existing facilities. This will reduce the amount of facilities needed over a period of years.

The second five-year program (1969-1973) will be presented at the next meeting of the committee.

COMMITTEE

Final Plans School of Business Administration Building

Mr. Aldrich and Mr. Kaufmann joined the meeting and presented the final plans for the new School of Business Administration Building. They also brought before the committee the architectural sketches of the completed building and samples of a proposed material for the stone work - called mosai. This material has the advantages over limestone not only of range of colors and texture but can be preformed prior to being brought to the site.

The bids for the School of Business Administration Building will be placed so that alternate bids can be made using either limestone or mosai. This has been requested by the State Division of Building Construction.

After the specific discussion on the proposed building, a general discussion was held regarding the use of Pietro Belluschi as an architectural consultant for the administration building, which is to be planned in the next stage, and the remaining complex. Mr. Aldrich expressed his pleasure and willingness to work with Mr. Belluschi and the committee agreed that Mr. Belluschi should be brought into the planning as soon as his availability and financing will allow. As the preliminary design and drawings of the new School of Business Administration Building have been approved at prior meetings by the Board of Trustees, it was generally agreed that the final plans would not be delayed for a consultant's suggestions.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the final plans and specifications for the School of Business Administration Building be approved as presented.

Trustee Schuck was recorded as voting against the motion.

UNIVERSITY OF MASSACHUSETTS

COMMITTEE

Selection of Architect

Treasurer Johnson reported that the recommendation of the architect for the renovation of the older buildings on campus by the Board of Trustees has not been followed. Instead, the Commission on Administration and Finance appointed the firm of Munson & Mallis of Springfield. The work is presently under a hold order pending clarification of the appointment of the architect.

On motion duly made and seconded, it was

VOTED: That the committee protest the appointment of the firm of Munson and Mallis of Springfield as architects for the renovation of the older buildings at the University.

The Treasurer was asked to explore the matter further with the Department of Building Construction before releasing the hold order to assure proper architectural coverage of the project.

Land Acquisition

The Treasurer requested the approval of a third appraiser to be used in the appraisal of land areas under consideration for land acquisition. He recommended that John F. Tehan, Jr. of Springfield, who was recommended by Judge Blassberg, be appointed as an appraiser. The committee was given resumes of his experience and background for their information.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that John F. Tehan, Jr. of Springfield, Massachusetts be appointed as an appraiser on properties under consideration by the University in the town of Amherst.

Mr. Johnson briefly outlined the properties currently under option or those that appear favorable for option. These properties will be appraised by another appraiser prior to any final action. He reported that further eminent domain procedures may be brought before the committee for their consideration at the next meeting.

COMMITTEE

Farm Services Building

Mr. Johnson outlined to the committee the proposed two-story addition to connect the present Engineering Shop Building and the Engineering Annex. This addition would replace the wooden farm service buildings now located to the east of the Engineering Building and north of Goessmann Laboratory. They will be removed during the construction of additional engineering facilities.

The proposed addition would also unify the existing structures and would be more in scale with the new Natural Resources Building being constructed adjacent to them.

After discussion and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the approval of the site and location for the farm services building. This building is to be a unit to connect the present Engineering Shop Building and the Engineering Annex.

Other Items

Stone & Webster Study

Treasurer Johnson presented a proposed study of fuels and power generation on the campus. He explained that this could be accomplished through an expansion of the current Stone & Webster study of coal handling facilities by the Division of Building Construction.

After discussion and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that a further study be made of the types of fuels, distribution of heat, generation of electricity, and voltage distribution on the campus be requested from the Division of Building Construction.

The Treasurer reported that further meetings by the Master Planning Committee and members of the committee have been held with the representatives of the Lutheran Church of Amherst. The church is still interested in the Larned property. The Master Planning

Committee has discussed other areas for the church to consider but no final decisions have been made.

COMMITTEE

The committee recommended that the University Master Planning Committee continue to work with the church group and explore as broadly as possible with them. Sympathy was expressed for their problem and it was hoped that a mutually agreeable solution can be reached.

The meeting was adjourned at 12:45 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON ATHLETICS

April 18, 1962, 12:30 p.m., Statler Hilton Hotel, Boston

COMMITTEE

Chairman Cashin presiding

PRESENT: Trustees Cashin, Crowley, Healey Pumphret, President Lederle. Also, Treasurer Johnson, Assistant Secretary Doolan, Dean McGuirk and, representing the University Athletic Council, E. Johnston, A. Levine, G. Richason, Dr. H. Winn

The Chairman called upon Dean Warren McGuirk of the School of Physical Education to present the material for discussion.

Dean McGuirk distributed a memorandum outlining the need, work schedule, and recommendations for the new football and track facility (See Attachment A). He explained the details of the proposal and emphasized the need for immediate action in order to meet football scheduling plans. Such scheduling must be made four to six years in advance and, as a result of this, the University has commitments to play teams during the next few years who will not play in Amherst on the present facility.

A suggested amortization table was shown to the committee to indicate that sufficient funds would be available over a 20-year period to cover a bond issue. The facility would be financed and constructed through the University of Massachusetts Building Authority.

Trustee Pumphret, as Chairman of the Authority, presented a brief status report on the funds remaining in the Authority's first authorization by the General Court. He felt that it would be possible to meet the proposed financing out of the remaining funds and that the schedule, as outlined, was realistic. He

University of Massachusetts

Memorandum

From: University Athletic Council Date April 17, 1962

To: Athletic Committee of the Board of Trustees and Members of the University Building Authority

Subject: Priority Consideration of Football and Track Facility by the University of Massachusetts Building Authority

Expedition of the development of the football and track facility is of the utmost importance. The urgency results from:

1. The need to replace Alumni Field which will be lost through scheduled campus development prior to September, 1963.

2. Projected scheduling pattern is contingent on the known fact that a football facility with adequate seating accommodations is under development. (Scheduling patterns are planned for a 4 to 6 year period.) Such excellent institutions as Harvard, Dartmouth, and Rutgers have refused to play us at home until we can offer adequate accommodations.

3. The necessity of maintaining an increasing anticipated gate income.

4. Facility under consideration should be consistent in appearance and utility with the high standards set for other campus construction. This is especially desirable when you consider the location--the first facility on the approach to campus via the westerly access from bypass 116.

5. Firm commitment with Harvard University as dedication opponent for 1963.

6. The University Athletic Council strongly recommends that the University of Massachusetts Building Authority give high priority to the construction of the subject facility. Amortization payments will be budgeted in future Athletic Trust Funds.

WPM:B Signed: Warren P. McGuirk

Warren P. McGuirk
Director of Athletics

Tentative Work Schedule to Complete Development of Site (Plot #1), Construction of Track and Erection of a 20,000-Seat Football Facility Prior to September, 1963

1. April '62 - Landscape architect contracted to develop topography report and begin exploratory borings in area (Plot #1), 750' x 1275'.

2. June '62 - Let Phase I. to develop sub-drainage, install pilings, lay water mains and sprinkler system, sewer line and construct track.

3. October '62 - Let Phase II. for the construction of the west and east stands (steel), 360' long and 40 rows high (19,200 seats).

4. April '63 - Let Phase III. for press box, 60' long and 18'8" wide, west stand facilities, dressing rooms, heating system, public restrooms, concession stands, etc. Under east stands, identical facilities would be provided with the exception of the team rooms. Gate and ticket booths would be provided in each of the four corners of the facility.

5. May '63 - Cover gridiron with sod developed by Department of Agronomy.

6. July '63 - Let street and parking area contracts.

7. August '63 - Enclose gridiron and stands with appropriate link-wire.

8. September '63 - Miscellaneous signs, railings, flagpole, relocate scoreboard, etc.

A summary of the cost, exclusive of site development follows:

Phase I. - Construction of Track Surface	$30,000
Phase II. - Construction of steel stands on both sides of the field	480,000
Phase III. - Press box and facilities under both stands, including ticket booths, etc.	160,000
Street and Parking areas	30,000
Sound System	6,000
Lighting System	20,000
Sewer Lines	6,000
Link-wire Fence (2)	12,000
Miscellaneous signs, railings, flagpoles, grass, relocate scoreboard, etc.	6,000
	$750,000

Highlights of Football and Track Facility

Stadium Site - Located in southwest corner of University Campus, Plot #1.

Parking - Parking area of 20 acres with facilities for 3000 cars.

Dimensions - The football and track facility will cover a total of 35 acres, of which the playing field will constitute 3⅓ acres; the structure, etc., to occupy approximately 6½ acres.

Seating Capacity - 19,200 for football, lacrosse, track and special events.

Cost - $750,000 - Construction to be financed through bonds issued under the University of Massachusetts Building Authority. Amortization payments to be budgeted in Athletic Trust Fund.

Recommendations of the Football Facility Sub-Committee

It is fortunate, in many respects, that campus planning requires the abandoning of our present football facility. Neither the playing area, seating, nor accessory facilities (team dressing rooms, toilets, etc.) are adequate. Such excellent institutions as Harvard, Rutgers, Dartmouth and others have refused to play us at home until we can offer adequate accommodations.

The University Athletic Council has devoted considerable attention to the planning of a new football facility. Our thinking has been guided by the philosophy that the structure should be consistent in appearance and utility with the high standards set for other campus construction.

Since cost is directly geared to seating capacity, every resource available to the Council has been utilized in an attempt to arrive at a realistic figure. One of our basic premises is that it would be short-sighted to plan for any seating requirements less than those anticipated for 1972 in view of the necessity to amortize over a fairly extended period (yet to be determined).

Our projected enrollment for 1972 is 17,000 students (1976 - 21,000 students). The average attendance of students at home football games this past fall was 58.7%, with a high of approximately 60% at the U.R.I. game (Homecoming). It is reasonable, then to build for 60% of 17,000-10,000 students. This is a conservative figure, as there is every reason to believe that the level of student interest will increase as the quality of our football program improves.

Faculty and service staff will number close to 3,000. It is estimated that 33% will follow the athletic teams. Thus, 1,000 seats should be alloted.

An exponentially increasing alumni following must be accommodated. It is estimated that by 1972 there will be 20,000 alumni withis reach of our campus. A schedule that is becoming more attractive each year should attract 10-15% of this group to the campus, thus requiring (if wives, children and friends are included), another 3,000 seats.

A fourth group which we must accommodate includes friends of our opponent; residents of the Commonwealth who are interested in the athletic teams of their University; high school visitors (we have an obligation as a State University to issue an invitation to home games to Massachusetts groups such as High School seniors, miscellaneous service groups, scouting groups, school patrols, hospital patients, bands, etc. To provide less than 4,000 seats for such guests would be unrealistic.

Based on the above considerations, our firm minimum recommendation on seating is as summarized on the following page:

Group	Total Number	Number in Attendance
Student Body	17,000	10,000
Faculty and Staff	3,000	1,000
Alumni	20,000	5,000
Other Groups	------	4,000
		20,000

After investigation of the specifications of football facilities at similar educational institutions, we are recommending unitized, solid-deck steel stands. All seating will be placed on the 300 ft sidelines, with the end-zones reserved for future expansion.

COMMITTEE

indicated that the Authority would need an official request from the Board of Trustees before it could act on the project.

During the discussion, it was decided that the proposal should be considered by the Trustee Committee on Buildings and Grounds at their meeting on May 4th and recommendations made to the full Board of Trustees at the regular meeting of May 17th.

Treasurer Johnson reported that the University Master Planning Committee had reviewed the proposal and had approved the location of the facility.

Therefore, upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the approval of the football and track facility to be located in the southwest sector of the University campus and to further recommend that the Board of Trustees authorize the University of Massachusetts Building Authority to proceed with the construction and financing of this project.

The meeting was adjourned at 3:30 p.m.

Robert J. Doolan
Assistant Secretary

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS & GROUNDS

May 4, 1962, 10:30 a.m., President's Office, U of M

COMMITTEE

Chairman Whitmore presiding

PRESENT: Trustees Whitmore, Schuck, Pumphret, Cashin, President Lederle. Also, Treasurer Johnson, Assistant Secretary Doolan, Judge Samuel Blassberg, and T. Bacon, P. Norton, L. Blundell, and H. Hugill of the University of Massachusetts Master Planning Committee

Land Acquisition

Judge Blassberg reported that he had a letter from Mr. Julius Grandonico requesting consideration of partial payment if the University should take his property. Judge Blassberg stated that this "pro tanto" proceeding is normal and recommended that up to 60% of the offer for the property be paid at the time of land taking.

Action on properties in the North Pleasant Street area was discussed and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that land taking procedures be initiated for the following North Pleasant Street area properties:

1. Grandonico property (The Little Store) - lot #57 in the town atlas.
2. Barselotti property (St. Regis Diner) - lot #55 in the town atlas.
3. Paresky property - lot #56 in the town atlas.
4. Wright property, Willard O. Seibert, trustee - lot #28 in the town atlas.
5. The right of way between the Barselotti and Paresky properties.

The above action will resolve all property action on the east side of North Pleasant Street with the exception of the Webb property. Due to the age and physical condition of the present owners, a discussion was held relative to the length of tenancy that could be allowed following any settlement. Upon motion duly

made and seconded, it was

VOTED: To recommend to the Board of Trustees that the date of June 1, 1963 be established as the terminal extension date for all properties acquired in the North Pleasant Street area.

And, it was

VOTED: To recommend to the Board of Trustees that Judge Samuel Blassberg be authorized to act for the Board and initiate land taking action for the Webb property if present negotiations should break down.

On other properties peripheral to the campus, a discussion was held on present options and those properties under negotiation.

On motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the following properties currently under option be purchased by the University of Massachusetts:

1. Fenton property - North Pleasant Street area - lot #24 in the town atlas - under option at $16,400.
2. Donohue property - North Pleasant Street area - lot #25 in the town atlas - under option at $17,500.
3. Doleva property - southwest of campus - 3 acres - under option at $1,500.
4. Bigelow property - north of campus - under option at $17,500.

In addition to the above properties, appraisals and offers are being made on the following properties:

1. The Woynar property - 3 acres and possibly a house - south of North Hadley Road.
2. Brown property - 20 acres - south of North Hadley Road.
3. Larned property - approximately 10 acres - north of the School of Education.

Upon motion duly made and seconded, it was

VOTED: That the committee authorize continued action on these and the Webb properties and that any options obtained between May 4 and May 17, 1962 may be presented to the Board of Trustees without further committee action.

COMMITTEE

A discussion was held on the proposal for design coordination of University buildings from Dean Pietro Belluschi of M.I.T.

Design Coordinator

The committee was unanimous in recognizing the need for the service and the excellence of the individual and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that Pietro Belluschi be retained as design coordinator for all campus building programs to assure the appropriateness of solutions and their general architectural expression at the rate of $30.00 per hour ($15.00 per hour for travel time) plus expenses and mileage at $.08 per mile.

Extension of Sasaki, Walker & Associates Agreement

The committee was asked to approve a study of present and future land usage by Sasaki, Walker & Associates to establish the bases for the future land acquisition program for the University. A preliminary report is to be due on May 15, 1962.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the agreement with Sasaki, Walker & Associates of Watertown, Massachusetts be extended to include a land usage study of present and future University needs at the rate of $15.00 an hour for Mr. Sasaki and the Executive Director, $12.50 per hour for project managers and designers and $8.00 per hour for draftsmen plus expenses and mileage at $.08 per mile.

Lutheran Church - Land Needs

A brief discussion was held on possible solutions to the needs of the Lutheran Church of Amherst for church property near the campus. The church group has been trying to locate land in many areas adjacent to the campus but have been unsuccessful to date. Although the committee was sympathetic with the problem and the church needs, no further suggestions could be made beyond what has been proposed in prior meetings of the committee and in meetings of the University Master Planning Committee.

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

Proposed Football and Track Facility

Trustee Cashin, chairman of the Trustee Committee on Athletics, reported on the football and track facility and recommended to the committee that it approve the action of the Athletic Committee at their meeting of April 18, 1962.

Following discussion and upon motion duly made and seconded, it was

VOTED: To approve the football and track facility to be located in the southwest sector of the University property and to recommend to the Board of Trustees that the facility be approved as presented by the Committee on Athletics.

Dormitories

1963 Dormitories - University of Massachusetts Building Authority, Project #2

Trustee Pumphret, as chairman of the University of Massachusetts Building Authority, presented the final plans and specifications of the 1963 dormitories, project #2, for the approval of the committee.

Mr. Pumphret presented the following timetable:

1. Approval by the University Master Planning Committee at their meeting of April 12, 1962.
2. Presentation to the Board of Trustees Committee on Buildings and Grounds - May 4, 1962.

If approved, the following schedule will be established:

1. Bids to be issued - May 7, 1962.
2. Bids for special contractors opened - May 25, 1962.
3. Bids for general contractors opened - June 4, 1962.
4. Award of contracts - June 6, 1962.

Upon motion duly made and seconded, it was

VOTED: To accept and approve on behalf of the Board of Trustees of the University of Massachusetts the final plans and specifications for the dormitory project #2 as presented by the University of Massachusetts Building Authority - such project scheduled to house approximately 1300 students for September 1963 occupancy.

COMMITTEE

Trustee Pumphret asked that the committee consider a name for Dormitory B of project #1 which is scheduled for completion this year. A discussion was held and the committee was unanimous in selecting one person who should be recommended to the Board of Trustees at the May 17th meeting.

The committee invited representatives of the University Master Planning Committee to participate in the discussion of the remaining agenda items.

Capital Outlay Program

Ten-Year Capital Outlay Program

A discussion was held on the proposed ten-year capital outlay program. Treasurer Johnson reported that the first five-year program will be submitted to the Division of Building Construction, then to the Governor, and the Legislature. The second five-year program is presented to the Governor to assist in his long-range capital outlay program.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the approval of the ten-year capital outlay program as prepared and presented by the administration of the University.

Sasaki, Walker Proposal

Sasaki, Walker & Associates

A discussion was held by both committees on the short and long-range study of campus physical planning. There was unanimous agreement that an over-all planning coordinator will be needed to guide and assist in a development of a program of this size.

Upon motion duly made and seconded, it was

COMMITTEE

VOTED: To recommend to the Board of Trustees that Sasaki, Walker & Associates of Watertown, Massachusetts be continued as planning coordinators for a progressive development of the University campus. The planning coordinator will undertake a continuing study of the University's needs and develop specific studies as required during the development program at the rate of $15.00 per hour for Mr. Sasaki and the Executive Director, $12.50 for project managers and designers, $8.00 per hour for draftsmen, plus expenses and mileage at $.08 per mile.

Inspection of Completed Projects

The committee inspected the new Engineering Shop Building and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the acceptance of the Engineering Shop Building, state project #U58-5 as completed in accordance with the plans and specifications for the project.

Engineering Shop Building - Acceptance

The committee inspected the third section of the Morrill Science Center and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the acceptance of the third section of the Morrill Science Center, state project #U57-1, as completed in accordance with the plans and specifications for the project subject to the correction of items contained on the exception list on file with the Construction Engineer.

Morrill Science Center - 3rd section - Acceptance

The meeting was adjourned at 5:00 p.m.

Robert J. Doolan
Assistant Secretary

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FINANCE

May 11, 1962, 12 Noon, Parker House, Boston

COMMITTEE

Chairman Healey presiding

PRESENT: Trustees Healey, Cashin, Brett, Hoftyzer, Pumphret, President Lederle. Also, Treasurer Johnson, Assistant Secretary Doolan, Assistant Treasurer Thaler and Mr. Herman Pike, representing Standish, Ayer & McKay, Inc. of Boston.

Report of Investment Counsel

The Chairman called upon Mr. Herman Pike of Standish, Ayer & McKay, Inc. who outlined the major points of his report on the University of Massachusetts endowment funds and operating funds investment account.

He reported that the endowment fund seemed to be well distributed at the present time and did not recommend any significant changes. He did point out that a cash balance of approximately $8,100 has been accumulated and recommended that it be invested.

Upon motion duly made and seconded, it was

VOTED: To authorize the Treasurer, Kenneth W. Johnson, to invest $8,000 of the cash balance accumulated in the endowment fund in U.S. Treasury notes 3¼ of 2/15/63.

Mr. Pike then discussed with the committee the investment program for the Operating Fund Account. He suggested that the committee consider such investments as time certificates in commercial banks or the program established for charitable and non-profit institutions by the Morgan Guaranty Company.

A discussion was held on the amount and spread of funds in savings banks at the present time. An amount of $474,919 is currently on deposit in four banks as follows:

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Easthampton - $70,000
Ware - $115,411.16
Woronoco - $99,837.57
Amherst - $188,799.24

The rest of the funds are invested in U.S. treasuries.

A redistribution of the savings bank funds was suggested with a possible $50,000 limit per bank. It was further suggested that Boston and other city banks be considered for investment. The committee felt that the accounts should remain with Massachusetts banks. A gradual program of reduction would be instituted with the present banks to bring them down to the $50,000 limit.

As a result of the discussion, it was agreed that a new schedule would be formulated subject to the Finance Committee and Board of Trustees' approval. This would assure some flexibility with Massachusetts banks with approximately $500,000 to be on deposit in savings banks. Other funds could be established on time deposits in commercial banks and in U.S. treasuries. The schedule would incorporate a reasonable time schedule to reduce the present savings bank deposits to the $50,000 amount. This schedule will be presented at the next committee meeting on Finance.

Treasurer Johnson pointed out that a contract should be drawn up for Mr. Pike. The committee agreed that such a contract should be made and presented for committee and board approvals.

Proposed Trust Agreement with Massachusetts Fruit Growers Association

Treasurer Johnson reported that the Fruit Growers Association has raised the funds needed to purchase the Belchertown property and that the proposed trust agreement has been approved by the Attorney General's Office.

A discussion was held regarding whether the deed should be drawn up by the Fruit Growers Association giving the property to

the Commonwealth or to the Board of Trustees of the University.

COMMITTEE

It was agreed that in order to carry out the trust agreement and to insure more flexibility in the future, and as other properties have been so deeded, that the deed be drawn to the Board of Trustees. The Fruit Growers Association should draw up the deed in this way and accompany it with a letter outlining the gift of the property to the Board of Trustees of the University of Massachusetts.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the acceptance of the trust agreement with the Massachusetts Fruit Growers Association as presented in Attachment A to these minutes.

State Auditor's Report

The Treasurer presented a report to the committee (Attachment B) outlining the actions that have been taken since the report of the State Auditor for the period July 1, 1960 to June 30, 1961 had been received.

Use of Unrestricted Interest Income on Trust Funds

Treasurer Johnson presented a request for expenditures to be authorized from unrestricted interest income on trust funds.

Following discussion and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that expenditures be authorized from Unrestricted Interest Income on Trust Funds as follows:

1. For scholarships to students as determined by the faculty committee on scholarships and financial aid - $11,000.

2. For the printing and distribution of the President's Report and other reports, brochures and studies authorized by the President - $6,000.

3. For the use of the President in the furtherance of the University's program - $2,000.

UNIVERSITY OF MASSACHUSETTS

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Student Deposits

A proposal was presented to the committee for a change in the deposit accounts currently in operation by the University. The change will affect those accounts operated for the safe-guarding of student cash. It was suggested that such student accounts be discontinued due to the extra staffing and equipment needed and that the local banks be utilized for this service.

After discussion, the committee felt that such accounts are needed for a number of students for whom checking accounts would not be feasible and that the student accounts be continued as an aid and assistance for the relatively large number of students using the service.

Other Business

1. Insurance - Alumni Memorial Building

Alumni Memorial Building

Treasurer Johnson read a letter from Blair and Cutting Insurance Agency of Amherst proposing that the University convert the insurance on the Alumni Memorial Building to the form of the public and institutional property insurance. This program provides a larger limit of coverage and includes fire, lightning, vandalism and extended coverage for a relatively small increase in premium. A quarterly inspection of the property would be required which could be accomplished by current University personnel.

Members of the committee familiar with this form of coverage recommended its adoption as it does provide better protection at a reasonable rate.

Upon motion duly made and seconded, it was

COMMITTEE

VOTED: To recommend to the Board of Trustees that the Treasurer, Kenneth W. Johnson, be authorized to obtain the public and institutional property form of insurance for the Alumni Memorial Building.

2. Army - Air Force ROTC Military Property Bonds

ROTC Military Property Bonds

The Treasurer read a request to the Board to increase the military property bonds for ROTC from the present $11,000 to $23,000 to cover Air Force ROTC property.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that the Treasurer, Kenneth W. Johnson, be authorized to execute the Army - Air Force ROTC Military Bonds for $23,000.

The meeting was adjourned at 3:15 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON
FACULTY AND PROGRAM OF STUDY

June 1, 1962, 11:00 a.m., Student Union, Amherst

Chairman Haigis presiding

PRESENT: Trustees Haigis, Crowley, Schuck and President Lederle. Also, Provost Woodside, Assistant Secretary Doolan, and Dean Albert Purvis, School of Education.

Institute of Environmental Psycho-physiology

Provost Woodside presented the prospectus for an Institute of Environmental Psychophysiology and the function of the Institute and its organization. The committee discussed the purpose and philosophy of the proposed Institute and the other institutes already established at the University and recommended a change in Section II entitled Organization to assure Board approval of the Director of the Institute.

Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that an Institute of Environmental Psychophysiology be established at the University of Massachusetts as proposed in Attachment A to these minutes.

University Course of Study Committee

The recommendations of the University Course of Study Committee were considered by the Trustee committee. Provost Woodside reported that one section in the report regarding the classification of Geography was rescinded by vote of the University committee.

In the discussion of the recommendations, the committee agreed that a specification for television courses should be tabled until such future time when it may be applicable.

In a discussion on the proposed POLICIES AND PROCEDURES CONCERNING CHANGES IN UNDERGRADUATE CURRICULA AT THE UNIVERSITY OF

MASSACHUSETTS, the committee agreed that the words "if recommended" in the last sentence of paragraph I-B-a be deleted.

COMMITTEE

With these changes and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees to approve the additions, changes and deletions to the undergraduate program of study and the policies and procedures concerning changes in undergraduate curricula at the University of Massachusetts as outlined in Attachment B to these minutes and made a part of these minutes.

Recommendations of the University Graduate Council

The Provost presented the recommendations of the University Graduate Council.

Following discussion and upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees to approve the graduate courses as outlined in Attachment C to these minutes and made a part of these minutes.

Certificate of Advanced Graduate Study

Dean Purvis discussed the proposed Certificate of Advanced Graduate Study for the School of Education with the committee. He said that the certificate will meet a definite need for advanced study programs in specific areas and that similar programs can be found throughout the country.

Dean Purvis pointed out that such programs will replace the haphazard approach to further study that occurs when formal programs are not available.

There was a general discussion of advanced degree programs and the advanced study certificate program regarding their philosophy and purposes.

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Upon motion duly made and seconded, it was

VOTED: To recommend to the Board of Trustees the approval of the proposed program for the Certificate of Advanced Graduate Study within the School of Education in accordance with Attachment D to these minutes.

The committee held an informal discussion of future academic goals, programs of study, disciplines, and similar areas in which a broad range of ideas were explored.

The meeting was adjourned at 3:00 p.m.

Robert J. Doolan

Robert J. Doolan
Assistant Secretary

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COMMITTEE

Prospectus for an Institute of Environmental Psychophysiology

I. Purpose: Within the Department of Psychology there is being carried out an extended program of research on the psychophysiological effects of environmental and operational stresses. This research is currently being supported by grants from the National Science Foundation, National Institute of Health, Air Force Office of Scientific Research and a contract with the Electronic Systems Division of the Air Force Research and Development Command. The nature of the work is such as to have broad implications to a variety of applied problems and has led to expressions of interest from the aero-space and communications industries as well as from non-profit agencies concerned with the public health and welfare. A number of informal inquiries have been made concerning problems of mutual interest and the possibility of expanding the program to include related problems of both general and specific concern to these agencies and industries.

The University has been limited in its ability to carry out such work because of the lack of research and service personnel with time assignable for it. In addition, because the research has important inter-disciplinary aspects, it would be desirable to have assistance from specialists both within and outside of psychology. To overcome these limitations, technicians and research associates could be hired who would provide the desired assistance and contribute to a number of projects. It is proposed that this be accomplished through an "Institute of Environmental Psychophysiology" as a Trust Fund of the University.

II. Organization: The "Institute" will be responsible to the Head of the Department of Psychology, and in turn to the Dean of the College of Arts and Sciences and the Provost.* A Director of the Institute who should be a member of the faculty of the University will be nominated by the President for recommendation to the Board of Trustees of the University. An advisory committee will be appointed by the President consisting of members of the University administration, faculty and representatives from appropriate industries and non-profit agencies. This committee should meet periodically with the Director, Head of the Department of Psychology, Dean of the College of Arts and Sciences, University Treasurer and Provost to review policies of the Institute and make recommendations.

All grants and contracts entered into by the Institute will be approved by the Treasurer and Provost of the University. All actions of the Institute will be subject to review by the University Research Council which may make recommendations to the University Administration.

* When a new Dean of the Graduate School and Coordinator of Research is appointed, it may be desirable to reconsider and modify this line of responsibility.

III. Institute Activities. The Institute will be empowered to:
a. Accept grants for fundamental research.
b. Enter into contracts in support of fundamental research.
c. Enter into contracts for specific research problems.
The activities of the Institute will be such as to emphasize fundamental rather than applied research problems. Any specific research problems undertaken will be of such a nature that the University facilities are unique for their solution and should not be of a routine nature nor of the sort that is normally carried out by private consulting laboratories in the Commonwealth. The majority of the work will be of such a nature as to be publishable in the scientific literature.

IV. Finances. The Institute will be self-supporting and operating expenses will be derived from payments and overhead on grants and contracts. A fraction of the overhead accruing to the Treasurer of the University and the Director will be deposited in the University trust fund account for disbursement for non-Institute purposes.

V. Personnel. In addition to the Director, the Institute may employ administrative service personnel, technicians and research personnel. Research personnel may include people in the following categories:
a. Research Associate
b. Postdoctoral Fellow
c. Visiting Scientist
d. Research Fellow (part-time graduate student)
Graduate students will work on problems acceptable to the University for theses which will be responsible to their graduate school advisory committees. Their problems will be areas of fundamental research and not be of a routine service nature.

VI. Salaries. The salaries of all personnel other than the Director will be met from the Institute contracts and grants. The time for a University teaching salary may be supplemented from Institute funds at a rate consistent with University policy. Graduate students will be compensated at a rate consistent with University graduate teaching stipends.

VII. Patents and Copyrights. The policies of the Institute concerning patents and copyrights will conform to those of the University.

VIII. Advantages to the University.
a. Stimulation of the development and expansion in the Commonwealth of those sciences concerned with human factors engineering, environmental engineering and the life-support aspects of the aerospace industry.
b. Increase in the volume of fundamental research at the University.
c. Retention of active research scientists to the University.
d. Financial assistance to graduate students.
e. Enhancement of the research reputation of the University which will aid in attracting high quality graduate students and staff.

13. [illegible] a University owned Foundation: If and when a University Research Foundation is established, the Institute may be considered for incorporation as a branch of the Foundation.

MINUTES OF MEETING OF UNIVERSITY COUNCIL OF STUDY COMMITTEE
Friday, April 13, 1962, 4:00 p.m., Middlesex Room, Student Union

PRESENT: Provost Woodside, Mrs. Addison, Miss Bates, Miss Macdonald, Miss Pierpont, Messrs. Anthony, Bischoff, Caldwell, Farquhar, Colonel Marchant, Messrs. Marcus, Rhodes, Skillings

The Committee first considered the proposed "Policies and Procedures Concerning Changes in Undergraduate Curricula at the University of Massachusetts". Because the Committee felt that paragraph I.B.c. essentially covered the material in paragraph I.B.a., it was

VOTED: To delete the latter paragraph and to rearrange the sequence of the remaining paragraphs of section I.B.

The Committee confirmed the omission of a representative of the Library from the membership of the Committee as proposed under II.A. The Secretary of the Committee was directed to include the Librarian on the list of those to receive copies of the Committee's minutes.

The Committee also confirmed that there should be three representatives from the College of Arts and Sciences on the basis of the fact that essentially three-quarters of the majors, courses, and graduate work of the University is carried on in that College.

Paragraph II.C.a. was amended by a vote of the Committee to have the second sentence direct that recommendations be submitted to the Dean of each College and School for submission to the respective curriculum committee.

As amended by the above votes, the Committee

VOTED: To approve the proposed policy statement. Copies of the final policy statement are to be sent to members of the Faculty Senate and also included as attachment to the minutes of this meeting.

The Committee also

VOTED: To continue the classification of History as a Social Science.

The Committee

VOTED: To refer to the Department of Philosophy a proposal that paragraph C of the core curriculum statement be amended by the addition of the words, "which are not courses in logic" at the end of the paragraph.

Mr. Meyers suggested that there is a need for reconsidering the whole core curriculum policy statement in the light of the experience gained in the years during which it has been in effect.

The Provost announced approval of the following new courses:

ART 97 (I) 98 (II) Special Problems in Art

For qualified senior Art majors, who wish to specialize further in a particular aspect of Art. Arrangements must be made with members of the Department. Credit 1-3

ASTRONOMY 55 (I) Astronomical Observation, Reduction, and Analysis (ASTEC 37)

Fundamental astronomical catalogues and their uses; theory of the transit telescope; visual observation with the equatorial telescope and the transit; photography with the equatorial telescope; photometry.
Prerequisites: Astronomy 1, 2. Required of all Astronomy majors and registration restricted to these students.
3 class hours. Some classroom hours will be replaced by observing sessions to be arranged. Credit 3

ASTRONOMY 56 (II) Astronomical Observation, Reduction, and Analysis (ASTEC 38)

Astronomical spectroscopy including line identification, plate calibration and radio velocity determination; photography of objective grating spectra; photo-electric photometry, including determination of atmospheric extinction and extrapolation to stellar color indices and magnitudes outside the atmosphere; photo-electric light curves of variable stars.
Prerequisites: Astronomy 1, 2. Required of all Astronomy majors and registration restricted to these students.
3 class hours. Some classroom hours will be replaced by observing sessions to be arranged. Credit 3

CHEMICAL ENGINEERING 59. Introduction to Analog and Digital Computers

An introduction to the principles of machine computation processes. Emphasis is on practice in writing programs and running them on analog and digital computers. Necessary mathematical background for the machine computation, such as numerical analysis, will be included. This course is designed for any students interested in machine computation.
Prerequisites: Mathematics 32 or equivalent, and permission of instructor.
3 class hours per week including 10 hours of laboratory work by arrangement. Credit 3

CHEMICAL ENGINEERING 61. Chemical Engineering Analysis

Application of mathematical techniques to chemical engineering problems. The emphasis would be on analysis of problems and the devising of satisfactory mathematical models. A part of the course would be devoted to the solution of problems by means of machine computation.
Prerequisites: Chemical Engineering 56 and 59.
3 class hours. Credit 3

ENTOMOLOGY 35 (I) Applied Entomology

Principles of insect structures, physiology, developments, relationships followed by discussions of basic control methods.
2 class hours, 1 2-hour laboratory period. Credit 3

PHILOSOPHY 76. Mathematical Logic

Theory of formal systems: equivalence, completeness, incompleteness, decision procedures, formal syntax and semantics, recursive function theory, formal number theory, "reduction" of mathematics to logic.
Prerequisite: Philosophy 75 or its equivalent; or (rarely) permission of the instructor.
3 class hours Credit 3

The Provost announced that he had approved the discontinuation of Astronomy 24 (Development of Astronomy), Astronomy 81 (Laboratory Astronomy), and Entomology 53 (Principles of Agricultural Entomology). Also, the descriptions of the following two courses have been revised:

ASTRONOMY 75 (I) Astro-Physics (ASTRC 41)

Gas laws and nuclear reactions as applied to the structure of stellar interiors. Evolution of stars.
Prerequisites: Physics 7; Mathematics 30.
3 class hours Credit 3

ASTRONOMY 76 (II) Astro-Physics (ASTRC 42)

Study of the emitting and absorbing properties of stellar atmospheres; approximate solutions of the equation of transfer for continuum and line radiation; determination of the physical properties of stellar atmospheres with special emphasis on the sun. Determination of atmospheric abundances of elements.
Prerequisites: Physics 7; Mathematics 30
3 class hours Credit 3

The Provost has also approved the discontinuance of Veterinary Science 75, 76, 78 and 88 (Comparative Veterinary Anatomy, General Veterinary Pathology I and II, and Avian Pathology). These courses are replaced by

VETERINARY SCIENCE 72. Introduction to the Study of Diseases

The causes, development, transmission and control, with application to diseases of animals which are of economic and/or public health importance.
Prerequisites: Microbiology 31 or Zoology 35
3 class hours Credit 3

The following course renumberings are hereby made a matter of record: German 25 and 26 renumbered 7 and 8 respectively. Courses numbered 5 and 6 renumbered 7 and 8 respectively in Greek, Italian, Latin, Portuguese and Russian.

Mathematics 54a has been renumbered 52 and the description of Mathematics 57 (Linear Programming and Theory of Games) has been amended to delete the limitation of the total credit which may be received for Mathematics 54 and 57.

The meeting adjourned at 5:15 p.m.

Respectfully submitted,

N. Hills Skillings

N. HILLS SKILLINGS
Secretary

POLICIES AND PROCEDURES CONCERNING CHANGES IN UNDERGRADUATE CURRICULA AT THE UNIVERSITY OF MASSACHUSETTS

I. College and School Curriculum Committees

A. The following principles should be followed by Academic Deans and the Curriculum Committees of the College or School in their consideration of Curriculum changes.

a. Interdepartmental courses should be strongly encouraged in instances where similar courses are required in different areas of major concentration.

b. Courses duplicating instruction are to be discouraged. When such questions arise, the Provost shall have the responsibility for making the final decision as to the department or school which shall offer a particular course, after consultation with the academic deans involved.

c. The availability of staff and of prospective enrollments should be duly considered before curriculum changes are recommended. The utilization of courses under the four-college plan should be considered for areas of small demand.

d. The number of freshman and sophomore level courses offered by any school or department shall be kept within reasonable limits.

e. Courses with small enrollment shall be offered in alternate years when feasible.

f. Schools and departments should be constantly alert to discontinue courses and subject matter which have become outdated and to introduce instruction in areas of recent development.

B. The following procedures should be followed by College and School Curriculum Committees in making changes in the curriculum.

a. Proposals involving the introduction of new courses, the discontinuation of courses, changes in title or description, changes in credit value, etc., shall be given by the school or department to the appropriate academic dean, who will refer them to the curriculum committee of the College or School for advice. The dean must then recommend or disapprove the proposal and send it to the Provost for action.

b. Proposals for new courses should include:

(1) The proposed catalogue number, title and description of the course (description limited to 25 words).

(2) Descriptive material including the major topics to be considered in the course, the type of published materials available to support the course, the relationship of the proposed course to the program of the school or department and the program of other schools or departments, and to courses offered through the four-college plan.

(3) In submitting new curriculum and new course proposals to the Provost, the Academic Deans shall forward 25 copies of the proposal to the Provost who will forward one copy to each Academic Dean. At the discretion of the Dean, such proposals may be discussed with the Curriculum Committee of the respective College or School. In any event, the Dean is to have three weeks in which to point out to the Provost any evidence of possible duplication of course content or to register any other objection to the proposals.

c. Proposed changes of a minor nature, such as the numbering of courses or the semester in which the course is offered, shall be determined by the Dean of the College or School in consultation with the Scheduling and Records offices. A memorandum of the action shall be sent to the Provost.

d. The Provost shall maintain a file of proposed curriculum changed which shall be available for inspection.

II. Undergraduate Course of Study Committee

A. Membership of the Committee

The committee shall consist of one representative from the Curriculum Committee of each College or School, (including the Division of Military and Air Science) except that there shall be three representatives from the College of Arts and Sciences.

B. Frame of Reference of the Committee

a. The function of the Undergraduate Course of Study Committee shall be to advise the President on the University Core Curriculum and to recommend criteria and procedures for adopting or deleting individual courses for major sequences of study. Its recommendations shall be referred to the President via the Provost (who shall serve as Chairman of the Committee) for transmittal to the Trustee Committee on Faculty and Program of Study.

b. Although the Academic Deans and the Provost are charged with seeing that University policy with respect to the curriculum is carried out, the Committee shall review, on request, problems related to the curriculum.

C. Procedures

a. The Committee shall have responsibility for reviewing the University Core Curriculum periodically and making recommendations for needed revisions. Such recommendations must be submitted to the Dean of each College and School for submission to respective Curriculum Committees before being recommended to the President.

b. The Provost may refer curricular matters to the Undergraduate Course of Study Committee for advice but shall have the responsibility for the acceptance or rejection of any proposal for submission to the President and Trustee Committee on Faculty and Program of Study for approval.

c. Any faculty member may call to the attention of the Undergraduate Course of Study Committee, through the Provost, any matter concerning the curriculum which he feels should be considered.

d. In order to provide an official centralized record of curriculum actions by the Academic Deans and by the Provost, all such changes are to be read into the record and included as part of the minutes of the meetings of the Committee.

III. Board of Trustees

All major curricular matters which have been approved by the Provost and President are then presented to the Trustee Committee on Faculty and Program of Study. This Committee then recommends to the Full Board of Trustees whose approval is necessary for any major modification of the curriculum.

Approved by vote of University Course of Study Committee, April 13, 1962.

Approved by University Faculty Senate, May 24, 1962.

UNIVERSITY OF MASSACHUSETTS

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M E M O R A N D U M

From: Graduate Office Date: May 17, 1962

To: Mr. Robert Doolan, Acting Secretary of the University

The Graduate Council recommends to the President and Trustees the approval of a new graduate program in Education leading to the Certificate of Advanced Study. (See attachment)

The Graduate Council has voted approval of the following new courses subject to approval by the University of Massachusetts Board of Trustees:

CHEMISTRY

Chemistry 238, BIOCHEMISTRY OF PROTEINS.-A discussion of the chemical, physical, and biological properties of proteins. Credit, 3.
Prerequisite, Chemistry 194 and 166. Mr. Little.

GOVERNMENT

Government 200, SPECIAL PROBLEMS. Credit, 1-6
The Staff

Government 293, SEMINAR ON THE GOVERNMENT AND POLITICS OF SOUTH ASIA.- Intensive study of selected problems relating to the government and politics of India, Pakistan, and Ceylon. Credit, 3.
Mr. Sayeed.

HISTORY

History 209, CONTEMPORARY LATIN AMERICAN HISTORY.-A study of major movements since about 1930 with attention directed to the political, economic, social, and ideological forces contributing to change. Reading knowledge of Spanish or Portuguese is desirable but not required.
Three class hours. Credit, 3.

History 210, EARLY MEDIEVAL HISTORY.-Continuity between ancient and medieval civilization.
Prerequisites, working knowledge of Latin and one modern language (German, French, Italian) or by special permission of the instructor.
Three class hours. Credit, 3.

History 211, THE AGE OF THE RENAISSANCE AND REFORMATION.-A study of European culture between 1400 and 1600. A reading knowledge of a modern European language is generally required.
Three class hours.
Credit, 3.

History 212, TOPICS IN THE AGE OF THE ENLIGHTENMENT.-The movement of ideas in Atlantic Civilization during the 18th century. Study of the mind and writings of representative European and American thinkers with emphasis upon politics, religion, science, literature and the arts.
Three class hours. Credit, 3.

PHILOSOPHY

Philosophy 241, ETHICAL THEORY.-Analysis of selected problems of normative and meta-ethics involved in contemporary development of ethical theory.
Prerequisite, permission of instructor. Credit, 3.

Philosophy 251, 252, SELECTED PHILOSOPHERS.-Each semester a leading philosopher will be chosen for intensive reading.
Prerequisite, permission of instructor. Credit, 3, each semester.

Philosophy 258, KANT.-THE CRITIQUE OF PURE REASON will be read in its relation to Kant's philosophy as a whole. Credit, 3.
Prerequisite, permission of instructor.

Philosophy 261, 262, PROBLEMS IN THE HISTORY OF IDEAS.-An inquiry into a distinct major philosophical problem or group of related problems.
Prerequisite, permission of instructor. Credit, 3.
The Staff.

Philosophy 281, PHILOSOPHY OF LANGUAGE.-An inquiry into the nature of language, meaning, reference, communication and translation. Topics include the later Wittgenstein, Quine's contextualism, the Whorf-Sapir hypothesis, problems in psycholinguistics.
Prerequisite, permission of instructor. Credit, 3.
Mr. Swanson.

Philosophy 285, METAPHYSICS.-The leading issues in contemporary debate on the nature and limits of metaphysical theory; examination of metaphysical concepts in relation to their use and treatment by other disciplines.
Prerequisite, permission of instructor. Credit, 3.
Mr. Swanson.

Philosophy 286, THEORY OF KNOWLEDGE.-A study of perception, subject-object relation, origins of knowledge, concept formation and language, the analytic-synthetic distinction, limits of empiricism and rationalism, relation of epistomology to metaphysics. Credit, 3.
Prerequisite, permission of instructor. Mr. Swanson.

WILDLIFE MANAGEMENT

Wildlife Management 201, SEMINAR IN WILDLIFE MANAGEMENT.-Review and discussion of the literature in Wildlife Management, including such subjects as population dynamics and manipulation, law and administration, Afro-Eurasion wildlife problems, influence of land-use, Arctic wildlife and others. Credit, 2.
Two class hours. By arrangement. Mr. Greeley

Gilbert L. Woodside, Provost
Acting Dean, Graduate School

CERTIFICATE OF ADVANCED GRADUATE STUDY

SCHOOL OF EDUCATION

Most of the stronger Schools of Education offer a "sixth year" program of graduate study variously called a Certificate of Advanced Graduate Study or a Certificate of Educational Specialization. The need for such programs arises from two factors, namely, that new information, new practices and new resources in almost every field are multiplying with bewildering rapidity and secondly that programs to prepare educational personnel can no longer be confined to courses in professional education but must include many courses in allied fields. A few years ago the Masters Degree was quite adequate for these programs but this is no longer true.

The Certificate of Advanced Graduate Study is earned through a program of specialization whose major objective is preparing school personnel to do a better job in a specific position. It is not to be thought of as merely the acquisition of some thirty graduate credits beyond the Masters Degree. It is true that it has turned out to be this in some institutions but our School of Education has always adhered closely to the idea that all graduate work, even for the Masters Degree, should be in planned programs leading to a definite competence in some area of school work. This planning is continued in our present proposal. Each program has been carefully considered by the staff of the School in terms of required courses and related courses. Each student will have an Advisory Committee to see that the objectives of his chosen program have been met.

No attempt is made to indicate part of each program as being for the Masters Degree with the Certificate sitting like a cap on the top. On the contrary, the Certificate programs are prepared in terms of what we expect the student to have achieved when his program is completed. If the student has already achieved a Masters Degree his work will be evaluated in terms of the total program. If the student wishes to obtain a Masters Degree along the way he then must arrange his schedule and courses so as to meet the requirements for that degree.

<u>General Procedures</u>

(1) The student must apply for entrance to the Graduate School and to the School of Education for the Certificate. He must present transcripts of all

previous collegiate work. His scholastic record must show evidence of ability to do advanced graduate work. He must present four recommendations, two relating to his scholastic aptitudes and two relating to his professional competence. He must fulfill admission requirements for his specific program.

(2) If accepted, the student will enroll in a specific program and two faculty advisors will be named who will work out with the student a planned sequence of courses leading to the Certificate. This sequence will be reviewed and evaluated by the Committee on Graudate Studies. If accepted, the two faculty advisors will advise the student until the program is completed and then recommend the granting of the Certificate to the Committee on Graduate Studies of the School of Education. The faculty of the School of Education will then vote on the recommendation. If accepted, the School will present the Certificate. Since this is not a degree, the recipient will not be recognized during the regular University Commencement Program.

GRADUATE CATALOGUE DESCRIPTION

CERTIFICATE OF ADVANCED GRADUATE STUDY

The School of Education conducts several programs leading to the Certificate of Advanced Graduate Study. These are not degree programs. These programs call for a minimum of sixty semester hours of graduate work beyond the Bachelors degree, of which at least thirty must be taken at the University of Massachusetts and of these at least fifteen must be taken in the School of Education. Of all the course work leading to the Certificate at least eighteen credits must be in 200 courses. No credit is valid after ten years and the last 30 credits must be taken within a four year period.

All Fees and expenses must be paid before the Certificate will be conferred.

Four programs leading to the Certificate are offered. Each program requires a minimum of sixty credits beyond the Bachelors degree and the specific program of each candidate must be approved by the candidate's Advisory Committee.

(1) Reading Specialist. Prerequisites, teacher certification and two years of approved teaching. Recommended program: Education 120,149,153,177,201 or 216,215,263,264,265,291 and electives; 21-30 hours in such related graduate courses as abnormal psychology, exceptional child, phonetics, audiology, psy-

chological tests, diagnosis and treatment of behavior problems.

(2) School Guidance Specialist. Prerequisites, teacher certification and one year of approved teaching. Recommended program: Education 149,177,201,215, 216,240,241,242,243,291 and electives; 21-30 hours in such related graduate courses as psychological and individual testing, exceptional child, abnormal psychology, theories of personality, sociology, and counseling techniques.

(3) School Principals and Supervisors. Prerequisites, teacher certification and three years of approved teaching and/or administrative experience. Recommended program: Education 110,149,153,177,200 or 201,209 or 213,211,214, 220,283 or 284,289,291 and electives; 21-30 hours in related graduate courses in such fields as government, business administration, economics, sociology and psychology.

(4) Specialist in Audio-Visual Education. Prerequisites, teacher certification and two years of approved teaching, including one year's experience in the audio-visual field. Recommended program: Education 120,121,122,123,160, 166,188,200 or 201,211,214,267,268,291 and electives; 21-30 hours in related graduate courses in such fields as engineering, psychology, physics, and statistics.

CERTIFICATE OF ADVANCED GRADUATE STUDY

FOR

READING SPECIALIST

Prerequisites

(1) Certificate to teach

(2) At least two years of approved teaching

Recommended Program (A minimum of 60 credits beyond the Bachelors degree, approved by the candidate's Advisory Committee)

1. Required Courses

Ed. 120 Construction of Audiovisual Aids

Ed. 149 Data Processing for Schools

Ed. 153 Educational Tests and Measurement

Ed. 177 Principles of School Guidance

Ed. 201 Practicum in Education

or

5 Ed. 216 Seminar in Education

Ed. 215 Workshop in Remedial Reading

Ed. 263 Group Diagnosis of Reading Problems

Ed. 264 Individual Case Studies of Reading Problems

Ed. 265 Techniques in Remedial Reading

Ed. 291 Educational Research

Education Electives

2. Related Graduate Courses (21-30 hours)

Courses in Abnormal Psychology, Exceptional Child, Phonetics, Audiology, Psychological Tests, Diagnosis and Treatment of Behavior Disorders approved by the candidate's Advisory Committee.

CERTIFICATE OF ADVANCED GRADUATE STUDY

FOR

SCHOOL GUIDANCE SPECIALISTS

Prerequisites

(1) Certificate to teach

(2) At least one year of approved teaching

Recommended Program (A minimum of 60 credits beyond the Bachelors degree, approved by the candidate's Advisory Committee)

1. Required Courses

Ed. 149 Data Processing for Schools

Ed. 177 Principles of School Guidance

Ed. 201 Practicum in Education

Ed. 215 Workshop in Guidance

Ed. 216 Seminar in Guidance

Ed. 240 Occupations and Placement in School Guidance

Ed. 241 Administration of School Guidance Services

Ed. 242 Elementary School Guidance

Ed. 243 Group Activities in Guidance

Ed. 291 Educational Research

Education Electives

2. Related Graduate Courses (21-30 hours)

Courses in Psychology and Individual Testing, Exceptional Child, Theories of Personality, Abnormal Psychology, Sociology, Counseling Techniques approved by the candidate's Advisory Committee.

CERTIFICATE OF ADVANCED GRADUATE STUDY

FOR

SCHOOL PRINCIPALS AND SUPERVISORS

Prerequisites

(1) Certificate to teach

(2) At least three years of approved teaching and/or administrative experience.

Recommended Program (A minimum of 60 credits beyond the Bachelors degree, approved by the candidate's Advisory Committee)

1. Required Courses

Ed. 110 Evaluation of Elementary School
or
Ed. 153 Educational Tests and Measurement

Ed. 149 Data Processing for Schools

Ed. 177 Principles of School Guidance

Ed. 200 Problem in Education
or
Ed. 201 Practicum in Education

Ed. 209 Administration of Secondary School
or
Ed. 213 Administration of Elementary School

Ed. 211 Community Relations for School Personnel

Ed. 214 Principles of Supervision

Ed. 220 Massachusetts School Law

Ed. 283 Comprehensive High School
and/or
Ed. 284 Junior High School

Ed. 289 Cooperative Curriculum Planning

Ed. 291 Educational Research

**------- School Finance

**------- School Building Construction

Education Electives

2. Related Graduate Courses (21-30 hours)

Appropriate courses in such fields as Government, Business Administration, Economics, Sociology and Psychology approved by the candidate's Advisory Committee.

**Course to be given by New England Council for the Advancement of School Administration.

CERTIFICATE OF ADVANCED GRADUATE STUDY

FOR

SPECIALIST IN AUDIOVISUAL EDUCATION

Prerequisites

(1) Certificate to teach

(2) At least two years of approved teaching including one year of experience in the audiovisual field.

Recommended Program (A minimum of 60 credits beyond the Bachelors degree, approved by the candidate's Advisory Committee)

1. Required Courses

Ed. 120 Construction of Audiovisual Materials

Ed. 121 Teaching with Television and Radio

Ed. 122 Photography in Education

Ed. 123 Audiovisual Technology

Ed. 160 Elementary School Curriculum

Ed. 166 Preparation and Use of Audiovisual Materials

Ed. 188 Secondary School Curriculum

Ed. 200 Problem in Education

or

Ed. 201 Practicum in Education

Ed. 211 Community Relations for School Personnel

Ed. 214 Principles of Supervision

Ed. 267 Auto-instructional Devices and Programed Learning

Ed. 268 Administration of Audiovisual Services

Ed. 291 Educational Research

Education Electives

2. Related Graduate Courses (21-30 hours)

Appropriate courses in such fields as engineering, psychology, physics and statistics approved by the candidate's Advisory Committee.

Education 122. PHOTOGRAPHY IN EDUCATION. Theory and practice of taking and processing photographs for use in educational activities.
Prerequisite: Ed. 120 and Ed. 166 Credit, 3.

Education 123. AUDIOVISUAL TECHNOLOGY. Applications of acoustics, electricity, magnetism, mechanics and optics to audiovisual equipment and techniques.
Prerequisite: Ed. 166 Credit, 3.

Education 149. DATA PROCESSING FOR SCHOOLS. Theory and practice in the use of simple types of data processing equipment in scheduling, record keeping, attendance, and registers.
Prerequisites: Ed. 153 or Ed. 291 Credit, 3.

Education 242. ELEMENTARY SCHOOL GUIDANCE. A study of skills, techniques, and objectives of guidance in the elementary school, emphasizing those aspects of guidance of particular interest to the elementary school teacher or guidance person.
Prerequisite: Ed. 177, Psychology 188, and background in Psychology
Credit, 3.

Education 243. GROUP ACTIVITIES IN GUIDANCE. A guidance study of school groups. Attention will be given to group dynamics, discussion techniques, group counseling, sociometric methods, and other school group activities.
Prerequisite: Ed. 177, Psychology 188, and background in Psychology
Credit, 3.

Education 263. DIAGNOSIS OF READING DIFFICULTIES. Theory and interpretation of diagnostic procedures to develop a background of information in the diagnosis and treatment of reading difficulties.
Prerequisite: Ed. 161 Credit, 3.

Education 264. INDIVIDUAL CASE STUDIES OF READING PROBLEMS. Practical experience in the gathering and summation of information to form a case study of a child in order to determine the seriousness of the reading problem and the underlying causes and to make recommendations for their correction or remediation.
Prerequisite: Ed. 263 Credit, 3.

Education 267. AUTO-INSTRUCTIONAL DEVICES AND PROGRAMED LEARNING. Theory and practice of programed learning for typical school subjects. Each student will set up objectives and construct a program for a unit of work. Implications for future use in education will be considered.

Prerequisite: Ed. 166 Credit, 3.

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON
FACULTY AND PROGRAM OF STUDY

June 27, 1962, 2:00 p.m., Waltham, Mass.

PRESENT: Trustees Haigis, Brown, Crowley, Furcolo, Kiernan, Schuck; President Lederle and Provost Woodside

Chairman Haigis called the meeting to order and appointed Gerald J. Grady, University Business Manager, as Secretary pro tem.

After motion duly made and seconded, it was

Undergraduate Courses

VOTED: That the curricular changes as presented in Attachment A be approved with the understanding that the course titled "Special English Composition", English 3 (I) be given tentative approval pending further information to be presented by Provost Woodside.

After motion duly made and seconded, it was

Master of Science in Industrial Engineering

VOTED: That the recommendation of the Graduate Council for a Master of Science degree in Industrial Engineering be approved.

After motion duly made and seconded, it was

Four-College Ph.D. in Germanic Languages and Literature

VOTED: That the recommendation of the Graduate Council for a Four-College Ph.D. program in Germanic Languages and Literature be approved.

Chairman Haigis reported that a summary of current research at the University will be distributed, as well as a draft study by the University Office of Institutional Studies concerning service and research facilities available to assist in community and area development, and that a report of the Technical Institute Study Committee will be on the agenda at a fall meeting.

The meeting was adjourned at 5:15 p.m.

Gerald J. Grady
Secretary pro tem

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UNIVERSITY OF MASSACHUSETTS

COMMITTEE

A

University of Massachusetts

MEMORANDUM

From: Provost Date: June 19, 1962

To: Trustee Committee on Faculty and Program of Study

Subject: Curricular Changes

The following curricular changes are recommended for approval:

A. In the Department of English:

1) Special designations for the courses which parallel English 2, 25, and 26 for students who achieve advancement placement

3. (I) Special Freshman Composition
Structure and style in expository writing, library research and the documented paper, basic literary forms and critical terms. Open only to freshmen who have been exempted from English 1.
2 class hours Credit, 2.

28. (II) 29. (I) Special Course in Masterpieces of Western Literature
A study of the texts read in English 25-26 with additional outside readings. Freshmen who have achieved grades of A in English 2 or B in English 3 may substitute English 28-29 for English 25-26; a grade of B in English 28 is required for admission to English 29. English 25 or 28 is prerequisite to elective courses in the Department. An elective course may, however, be taken concurrently with English 26 or 28; for prospective majors, this elective should be English 61.
3 class hours Credit, 3.

2) Modifying English 68 to include six (6) plays instead of five (5).

68. (II) Shakespeare
An intensive study of six plays, directed toward a scholarly appreciation of Shakespeare as a dramatic artist. Prerequisite, English 67.
3 class hours Credit, 3.

3) Clarifying prerequisites by amending three course descriptions to read:

25. (I) (II) 26. (I) (II) Masterpieces of Western Literature
A study of selected masterpieces. The course aims to enrich the student's appreciation of literary values and develop his understanding of abiding human issues. Prerequisite, English 2 or 3; English 25 or 28 is prerequisite to English 26 and to elective courses in the Department. An elective course may, however, be taken concurrently with English 26 or 29; for prospective majors, this elective should be English 61.
3 class hours Credit, 3.

61. (I) (II) History of English Literature
A study of the major phases of English literary history. Representative writers from Chaucer to Dryden will be examined. English majors are expected to include English 61 among their first Departmental electives; it may be taken concurrently with English 26 or 29.
3 class hours Credit, 3

and adding "Prerequisite: Permission of Instructor" to the description of:

English 51. Advanced Expository Writing
" 52. Advanced Technical Writing
" 53. Creative Writing
" 54. Creative Writing
" 95. Seminar
" 96. Seminar

B. In the Department of Speech:

1) Discontinuation of Speech 65 and 66.

2) Renumbering of five courses:

51 to 50. Oral Interpretation
91 to 51. Extemporaneous Speaking
92 to 52. Discussion
93 to 53. Argumentation and Debate
94 to 54. Persuasion

3) Introduction of six new courses:

Speech 55 (I) History of Rhetorical Theory
A study of rhetorical theory from Plato and Aristotle to the present with particular emphasis on the Greeks and Romans. Prerequisite, Speech 51, or permission of instructor.
3 class hours Credit, 3

Speech 57 (I) American Public Address
Reading and analysis of speeches taken from the American political platform, academic platform, pulpit, courtroom, and ceremonial platform. Lectures, discussions, written reports, and listening to contemporary addresses over the radio or on tape. Prerequisite, Junior standing or permission of instructor.
3 class hours Credit, 3

Speech 58 (II) Advanced Rhetorical Composition
An intensive study of the departments of invention, disposition, and style. Practice in the application of principles studied in classical and modern treatises by the preparation and revision of outlines and manuscripts for speeches. Prerequisite, Speech 51.
3 class hours Credit, 3

Speech 73 Introduction to Theatre
An Introduction to the Art of the Theatre: A survey of its aesthetics, elements, forms and contributing artists; its influences and place in the culture of our society (the number will be changed after pre-registration).
3 class hours and 10 laboratory hours per semester by arrangement.
Credit, 3

Speech 70 Fundamentals of Play Production
A Study of the Methodology and Techniques of Play Production through lectures, demonstrations and practical laboratory work. The responsibilities and contributions of all participating artists will be examined in detail through an intensive study of every aspect of production from script to stage. (The number will be changed after pre-registration.)
3 class hours, 1 2-hour laboratory period. Credit, 3

Speech 97 (I) 98 (II) Independent Study and Research
For qualified seniors, independent study and research on selected problems in the various major areas of study. Credit, 1-3

C. In the Department of Zoology:

1) Discontinuation of Zoology 55 and 56.

2) Changing the name of Zoology 78 to Population Genetics.

3) Changing Zoology 37, 38, Anatomy and Physiology
From: 2 lec. 1 three-hour laboratory per week, 3 credits
To: 3 lec. 1 three-hour laboratory per week, 4 credits.

4) Revise Zoology 69, Animal Parasitology (3 credits), to
Zoology 69 (I) General Parasitology
Morphology, life cycles, and physiology of primarily protozoan and helminth parasites, with emphasis on braod aspects of parasitism.
Prerequisites, Zoology 1 and Chemistry 2 or 4.
2 class hours, 2 2-hour laboratory periods. Credit, 4

D. In the Department of Mathematics:

1) Discontinuation of Math 51, Modern Euclidean Geometry; Math 56, Synthetic Projective Geometry; and Math 66, Analytic Projective Geometry, and replacement by two new courses:

Mathematics 61 Projective Geometry
A study, from both the synthetic and analytic viewpoints, of properties invariant under projection, with emphasis on the real plane. Equivalence of Desarguesian and coordinate projective geometries.
Prerequisite, Math 53.
3 class hours Credit 3

Mathematics 62 Higher Geometry
A study along the lines of Klein's Erlanger Programm of various geometries and their groups of transformations, emphasizing Projective, Affine, and Euclidean. Prerequisite, Math 54 and Math 61 or permission of instructor.
3 class hours Credit, 3

2) Discontinuation of Math 94, Theoretical Advanced Calculus, and replacement by:

Mathematics 85 Introductory Modern Analysis I
Real and Complex Numbers. Basic Topology of the Real Number System. Limit Concept and Continuity. Differentiation. Partial Differentiation. Prerequisite, Mathematics 91.
3 class hours Credit, 3

Mathematics 86 Introductory Modern Analysis II
Bounded Variation. Riemann-Stieltjes Integration. Multiple Integrals. Line Integrals. Infinite Series. Sequences of Functions. Improper Riemann-Stieltjes Integrals. Prerequisite, Mathematics 85.
3 class hours Credit, 3

3) A new course:

Mathematics 88 Sets and Ordered Structures
Basic properties of sets. Ordered sets. Complete ordered sets. Well-ordered sets. Cardinal and ordinal numbers. Axiom of choice, well-ordering theorem, Zorn's Lemma and other forms of the axiom of choice. Cardinal arithmetic. Prerequisite, Mathematics 85 or permission.
3 class hours. Credit, 3

4) A semester by semester replacement of courses 4, 29, 30, 91 by:

9 Analytic Geometry and Calculus I
Logic, sets, topics from algebra, introduction to analytic geometry, functions, limits and derivatives, differentiation of algebraic functions, tangent and normal lines. Prerequisite, proficiency in trigonometry.
3 class hours Credit, 3

10 Analytic Geometry and Calculus II
Applications of the derivative, conic sections and other algebraic curves, the definite integral and some of its applications, differentiation of transcendental functions. Prerequisite, Mathematics 9.
3 class hours Credit, 3

25 Analytic Geometry and Calculus III
Techniques of integration, further applications of calculus, basic properties of continuous and differentiable functions, parametric equations, polar coordinates, infinite series. Prerequisite, Mathematics 10.
3 class hours Credit, 3

26 Analytic Geometry and Calculus IV
Solid analytic geometry, partial differentiation, multiple integrals with applications, introduction to differential equations. Prerequisite, Mathematics 25.
3 class hours Credit, 3

And addition of a new no credit course which some students may need:

07 Essentials of Analytic Trigonometry
General definitions of trigonometric functions. Use of Tables, Graphs, Identities, Equations, Inverse Functions. For students who are deficient in Analytic Trigonometry. Prerequisite, Placement Scoring.
One hour per week. Credit, None

These course changes represent three important procedural changes: (1) during the summer counseling period, the student will have to choose from Math 1, 7, or 9 with the placement examination and high school to guide him; (2) Math 1 and 2 will be a separate terminal course for students who do not need a working knowledge of calculus; and (3) teeth are put into the catalogue statement on admissions, page 19, "Students planning to major in the physical sciences and mathematics should, if possible, offer two years of algebra, one of plane geometry, and one-half year of trigonometry". The big advantage of the revised program is that it will get the students who are planning to major in mathematics or a physical science into, and through, calculus more rapidly. It will also eliminate advanced placement credit for some of these students.

E. In the Department of Chemistry, adding an optional two credits for six hours a week of laboratory work in connection with Chemistry 87, Inorganic Chemistry of the Common Elements. The course will then be available for 3 credits (without laboratory), or 5 credits (with laboratory).

F. In the Department of History, modification and enlargement of History 57 and 58, Hispanic American History, to the three courses below:

History 57 (I) Colonial Latin America
A study of Spanish and Portuguese expansion into the New World, the Indian cultures, the development of political, social, and economic institutions, and the growth of the independence movement to 1810.
3 class hours Credit, 3

History 58 (II) Brazil and Argentina in the Nineteenth and Twentieth Centuries
The emergence of the major South American states. Particular attention will be paid to the themes of political organization and economic change; and in the contemporary period to the growth of nationalism and mass-based political movements.
3 class hours Credit, 3

History 59 (I) The History of Mexico
A study of Mexico from the end of the eighteenth century to the present. Emphasis will be given to political, economic, and social developments.
3 class hours Credit, 3

G. Year courses with limited enrollments in two Asiatic languages:

Elementary Japanese 1. (I) 2. (II)
For those who have had no previous creditable training in Japanese. Intensive practice in the language skills.
3 class hours Credit, 3

Elementary Hindi 1. (I) 2. (II)
For those who have had no previous creditable training in Hindi. Intensive practice in the language skills.
3 class hours Credit, 3

H. Department of Forestry and Wildlife Management, a new course

Forestry 95 (I) 96 (II) Seminar
Specialized study in a selected area of forestry or wood technology.
For seniors only. Credit 1-3

Also, delete Forestry 81. Regional Silviculture

Gilbert L. Woodside
Provost

UNIVERSITY OF MASSACHUSETTS

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M E M O R A N D U M

From: Graduate Office Date: June 15, 1962

To: Mr. Robert Doolan, Acting Secretary of the University

The Graduate Council recommends to the President and Trustees the approval of a new Master of Science degree in Industrial Engineering(see attachment)

The Graduate Council also recommends approval of a Four-College Ph.D. program in Germanic Languages and Literatures. Copies of the proposal as approved by the Graduate Council are enclosed.

The Graduate Council has voted approval of the following new courses subject to approval by the University of Massachusetts Board of Trustees:

AGRICULTURAL AND FOOD ECONOMICS

275, ADVANCED AGRICULTURAL AND FOOD ECONOMICS.-An intensive study of the theory of the firm applied to agricultural and food production, including: production functions, cost functions, programming, and decision making principles; aggregate supply functions in agriculture; applications of principles to the agricultural firm, and to the distribution of income to and within agriculture.
Prerequisite, AFE 175 or equivalent. Credit, 3.

ECONOMICS

214, FISCAL POLICY.-The theory and practices of government finance with special reference to the United States. Credit, 3.
Mr. Gamble.

252, ECONOMETRICS.-The application of modern statistical methods to macro and micro economic theory that has been formulated in mathematical terms. Prerequisites, Economics 25, 26, 175, Mathematics 1, 2, or 4 or consent of the instructor. Credit, 3.
Mr. Chaudhry.

261, 262, GENERAL ECONOMIC HISTORY.-Evaluation of the major sectors of economic activity in the western world. Credit, 3.
Mr. Blackman.

FORESTRY

204, ADVANCED SILVICULTURE.-Growth and reproductive characteristics and requirements of trees and forest stands as they affect silvicultural management, particularly in relation to thinning and the establishment of forest regeneration. Credit, 3.
Prerequisites, Forestry 153, 154, and 156 or equivalents. Mr. Rhodes.

205, RESEARCH CONCEPTS IN FOREST BIOLOGY.-A study of the development of biological knowledge relating to forestry from both the historical and philosophical points of view with special emphasis on contributions of contemporaneous scientific research. Given in alternate years. Credit, 3.
Mr. Abbott.

M E M O R A N D U M

From: William H. Weaver Date: February 21, 1962

To: Dr. Gilbert L. Woodside

Subject: Graduate Program in Industrial Engineering

. . . . . .

At the time of the last Engineering Committee for Professional Development accreditation examination, the examiner for the Industrial Engineering curriculum made a strong recommendation that the program be discontinued as an option in Mechanical Engineering, and that it be established as a separate undergraduate curriculum awarding a Bachelor of Science degree in Industrial Engineering. The Board of Trustees has approved this recommendation and the first such degrees will be awarded in June 1963.

With this step in progress accomplished, we wish to request approval for the offering of a graduate program and the privilege to grant a Master of Science degree in Industrial Engineering.

In requesting permission to grant the Master of Science degree, it is not planned to require a formal planned program of courses, nor will a foreign language be required. The student will be obliged to meet the requirements as listed under the section, Master's Degrees, in the catalog of the Graduate School.

For those students who will not offer a thesis, a minimum of three additional credit hours of work will be required covering an approved project and report involving an application of Industrial Engineering principles. While a formal program of courses will not be required, it is expected that one course in each of the following fields will be included in the student's program: statistics and probability, analytical techniques in solving industrial problems, methods of measuring human work, computers and their application in industry. A program of study will be planned so that the student will be able, with the approval of his advisor, to select a combination of subjects which will best fit his needs. The student's program may include study and research in the areas of manufacturing planning and control, work measurement, plant layout and design, traditionally associated with Industrial Engineering. It will be preferred that the student devote himself to the newer topics in the field such as: applied industrial statistics, data processing, operations research, and work study.

It will be assumed that the student working in these areas will have, or will obtain, the necessary background of basic Industrial Engineering and mathematics to pursue the required advanced work. All individual graduate programs will include courses in related work offered by other departments.

It is requested that approval be granted to offer the following courses:

Industrial Engineering

COURSES OPEN TO GRADUATE STUDENTS ONLY
(For either major or minor credit)

253. Methods of Measurement of Human Work.—A critical study of the assumptions in measuring human effort in industry including the problems present in rating, predetermined data systems, the use of the high speed camera in securing data.
Three class hours. Credit, 3.
Prerequisites, I.E. 53 and 72 or comparable courses. The Staff.

254. Advanced Topics in Engineering Economy.—A more intensive study of the basic subject field of engineering economy as stated in I.E. 54.
Three class hours. Credit, 3.
Prerequisite, I.E. 54 or a similar basic course in Engineering Economy. The Staff.

256. Advanced Topics in Data Processing.—Probability theory and information theory, components and operation of analog and digital computers, the analysis of large scale data processing systems as applied to the functioning of industrial control systems.
Three class hours. Credit, 3.
Prerequisite, I.E. 56 or a similar basic course in data processing principles and applications. The Staff.

277. Manufacturing Control.—A quantitative approach to decision making in production management. Incremental analysis, linear programming, waiting line theory, statistics as applied to problems of economic quantity planning, production programming, statistical control and equipment purchase.
Three class hours. Credit, 3.
Prerequisite, A basic knowledge of statistics and the principles of operations research. The Staff.

279. Quantitative Methods in Industrial Engineering.—The application of mathematical concepts and the principles of operations research and probability to various Industrial Engineering problems. The theoretical background will be presented, demonstrated by example and applied by exercises and case problems.
Three class hours. Credit, 3.
Prerequisite, A basic knowledge of statistics and the principles of operations research. The Staff.

300. Thesis.—Master's Degree. Credit, 3-10.

COURSES OPEN TO BOTH GRADUATE AND UNDERGRADUATE STUDENTS
(For either major or minor credit)

156. Analysis of Data Processing Systems.—Principles and applications of data processing and electronic computer systems for use by Industrial Engineers as a management tool for control and decision making.
Three class hours. Credit, 3.
Prerequisite, I.E. 51 or similar course or approval of the instructor. The Staff.

172. Principles of Engineering Statistics.—A study of statistical principles as applied to engineering problems including: analysis of variances, design of experiments, sampling plans, statistical quality control.
Three class hours. Credit, 3.
Prerequisite, A basic course in statistics comparable to Statistics 77. The Staff.

William H. Weaver, Head
Mechanical Engineering Department

A Petition to the Graduate Council for Permission to Institute a Cooperative Ph.D. Program in the Field of Germanic Languages and Literatures.

I. General Remarks

1) After discussions ranging over a period of more than three years, and in consideration of the increasing demand for a complete program of advanced studies in the field, the German Departments at Amherst, Mount Holyoke, and Smith College, and the Department of German-Russian at the University of Massachusetts have voted to petition the Graduate School Council for permission to offer a cooperative Ph.D. in the field of German language and literature.

2) Our combined resources in terms both of faculty and of facilities (see below under II and III) are adequate to such a program. Moreover, the presence of Hermann J. Weigand, Visiting Professor at the University of Massachusetts and formerly Director of Graduate Studies in Germanics at Yale, offers a unique opportunity to establish and initiate at this time a Ph.D. program under the guidance of a leading international authority in the field. (Professor Weigand will be associated with our Department as a full time teacher for one more year. Upon his retirement we hope to replace him with someone approximating his scholarly stature.)

3) In evaluating this application and, particularly, the proposed curriculum (see below under IV), the Council should bear in mind that although the M.A. degree in Germanics may constitute sufficient training for secondary school teaching, it is of course no longer considered adequate preparation for individuals intending to pursue a successful academic career in the field on the college and university level; that many of the leading institutions are by-passing this degree; and that, consequently, superior candidates will not, as a rule, pursue their advanced studies at institutions which do not offer a complete program.

4) The following proposals are offered as supplement to the general rules governing the Ph.D.

II. Faculty

Note: Participation in this program requires that each participating member complete the necessary formal application for membership on the Graduate Faculty. The following is a list of names of faculty members at the four institutions who are qualified to apply for membership on the Graduate Faculty, together with an indication of their special fields of interest.

CASSIRER, Sidonie (Mount Holyoke College)
B.A. (Hunter College)
M.A. (Yale University)
Ph.D. (Yale University, 1957)
(20th Century Literature)

ELLERT, Frederick C. (University of Massachusetts)
B.A. (University of Massachusetts)
M.A. (Amherst College)
Ph.D. (Stanford University, 1956)
(18th and 20th Century Literature)

GITTELMAN, Saul (Mount Holyoke College)
B.A. (Drew University)
M.A. (Columbia University)
Ph.D. (University of Michigan, 1959)
(19th Century Literature)

GRAHAM, Paul (Smith College)
B.S. (Northwestern University)
M.A. (Wesleyan University)
Ph.D. (Yale University, 1932)
(18th and 19th Century Literature)

HAUSER, Ronald (University of Massachusetts)
B.S. (University of California, Berkeley)
M.A. (University of California, Berkeley)
Ph.D. (University of California, Berkeley, 1957)
(19th Century Literature)

HELLER, Peter (University of Massachusetts)
B.A. (McGill University)
M.A. (Columbia University)
Ph.D. (Columbia University, 1951)
(18th and 20th Century Literature)

LETTAU, Reinhard (Smith College)
Ph.D. (Harvard University, 1960)
(20th Century Literature)

PEPPARD, Murray (Amherst College)
B.A. (Amherst College)
M.A. (Yale University)
Ph.D. (Yale University, 1946)
(19th and 20th Century Literature)

RUNGE, Edith (Mount Holyoke College)
A.B. (Swarthmore College)
Ph.D. (Johns Hopkins University, 1942)
(18th, 19th and 20th Century Literature)

SCENNA, Anthony (Amherst College)
B.A. (Amherst College)
M.A. (Columbia University)
Ph.D. (Columbia University, 1937)
(18th Century Literature)

SCHIFFER, Eva (University of Massachusetts)
B.S. (University of Massachusetts)
M.A. (Radcliffe College)
Ph.D. (Radcliffe College, 1962)
(18th and 20th Century Literature)

SCHNIEDERS, Marie (Smith College)
B.A.(Barnard College)
M.A. (Bryn Mawr College)
Ph.D. (Bryn Mawr College, 1935)
(Medieval Literature and Linguistics)

SCHUMANN, Willy (Smith College)
B.A. (Southern Methodist University)
M.A. (Southern Methodist University)
Ph.D. (Columbia University, 1959)
(19th Century Literature)

WEIGAND, Hermann J. (University of Massachusetts)
A.B. (University of Michigan)
M.A. (University of Michigan)
Ph.D. (University of Michigan, 1916)
(Medieval, 18th, 19th, 20th Century Literature)

WEISE, Horst (Smith College)
M.A. (University of Minnesota)
Ph.D. (Harvard University, 1962)
(20th Century Literature)

III. Facilities

The combined library resources of the four colleges and of HILC compare favorably to all but the leading collections. Other facilities, such as language laboratories, are available for practice teaching.

IV. Curriculum

1) Graduate Courses:

Note: Credit may be allowed for all courses offered at the four institutions which are open either to graduate students only, or to both graduate and undergraduate students. There are at present, 33 such courses. In practice course elections will be determined 1) by the general Ph.D. requirements as stated in the catalogue of the University of Massachusetts Graduate School (1961-63; pp. 14, 15); 2) by the Special Requirements for the Ph.D. in German (see below under item 2)); and 3) by the specific program of studies in the major and in the minor fields to be planned in accordance with the individaul needs of each candidate by his Guidance Committee.

Graduate Courses now Offered at:

A) AMHERST COLLEGE:

*German 44. - Problems in German Literature.

B) MOUNT HOLYOKE COLLEGE:

*307f. - Goethe.

*308s. - Goethe.

*310s. - Romantic Movement in Germany.

*311f - 312s. - Nineteenth Century Literature.

*318s. - Teaching of German.

*319f - 320s. - Modern Literature.

*321f. - History of the German Language.

401-402. - Studies in the Twentieth Century Novel.
(Graduate Students only).

403-404. - Studies in German Classicism.
(Graduate Students only).

C) SMITH COLLEGE

50, 50a, 50b. - Research and Thesis.
(Graduate Students only).

51, 51a, 51b. - Special studies in the fields of literature and linguistics.
(Graduate Students only).

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*Courses marked with an asterisk are open to both graduate and undergraduate students. Graduate students are expected to do additional reading and papers.

D) UNIVERSITY OF MASSACHUSETTS:

Note: The following courses will be given in a succession of years depending on the needs of students.

Courses Open to Graduate Students Only:

200. - Problems Course.

201. - Middle High German.

202. - German Literature of the Middle Ages.

204. - Germanic Philology. - Gothic, Old High German.

206. - The Age of Humanism and the Reformation. German Literature between 1400 and 1600; Der Ackermann aus Boehmen, Brant, Murner, Hutten, Luther, Hans Sachs.

208. - The Baroque Age. Opitz, Gryphius, Grimmelshausen; The Second Silesian School.

211. - The Age of Enlightenment with special reference to Lessing.

213. - Young Goethe. A close survey of Goethe's work prior to the Weimar period.

214. - The classical Goethe.

221. - Schiller. A study of his life and works.

225. - The German Bildungsroman. Goethe, Novalis, Keller, Stifter, Mann, Hesse.

230. - Heine and his age.

235. - The Drama of the Romantic Period. Comprehensive treatment of the works of Tieck, Kleist, and Grillparzer.

236. - The Realistic Drama. Comprehensive treatment of the works of Hebbel, Büchner, and Hauptmann.

240. - Lyrical Poetry of the XXth Century. Intensive study of the works of George, Hofmannsthal,and Rilke.

245. - Nihilism and affirmation in contemporary literature. A study of drama, fiction and essays reflecting the crisis of the modern age, with special emphasis on the period of Expressionism.

255. - Stylistics.

270. - Proseminar.

280. - Seminar.

300. - Thesis, Master's Degree.

400. - Thesis, Ph.D. Degree.

Courses Open to Both Graduate and Undergraduate Students:

151. - Nineteenth Century Prose.

152. - Poetry and Drama of the Nineteenth Century.

153. - Twentieth Century Prose.

154. - Poetry and Drama of the Twentieth Century.

155. - Storm and Stress.

156. - Romanticism.

157. - Goethe's Faust.

159. - The Germanic Languages.

160. - The Classical Period.

Comparative Literature

191. - Anglo-German Literary Relationships since 1750.

Linguistics

197. - Linguistics.

2) Special Requirements for the Ph.D. in German:

In addition to general requirements governing the cooperative Ph.D., the Ph.D. in German should be administered in accordance with the following requirements and directives:

A. Prerequisites:

a) Prior to admission to the program prospective candidates must present evidence of fluency in German and of a general knowledge of German culture and literature at a level corresponding to undergraduate major requirements at an accredited College or University, as well as of special aptitude for independent research. This must be written evidence. Otherwise a screening committee will be appointed from the staff of the German Departments at the four colleges to determine by means of a written and oral examination the fitness of prospective candidates in terms of these requirements.

b) Prior to admission to the comprehensive preliminary examination, candidates must demonstrate in writing 1) a good reading knowledge of French and 2) a working knowledge of Latin or of any major language other than German or English, or one deemed pertinent to the candidate's field of specialization by the Guidance Committee. This requirement must be fulfilled by the end of the candidate's second semester.

c) Prior to admission to the comprehensive preliminary examination, candidates must also demonstrate by written examination a reading knowledge of both Old High German or Gothic and Middle High German. This requirement will normally be fulfilled by satisfactory completion of courses in these subjects.

E. With respect to the preliminary comprehensive examination (which must include an oral examination, part of which is to be conducted in German), the following general requirements shall apply:

a) All candidates shall demonstrate by written examination a general knowledge of the history of the Germanic language as well as of the linguistic development of German from the Old High German period to the present.

b) In literature, the preliminary written comprehensive examination shall cover all of the major phases of German literature (1. Medieval, 2. Humanism, Reformation, Baroque, 3. Enlightenment and Classicism, 4. Romanticism and XIXth Century, 5. The Moderns).

c) In addition to this general examination, candidates will offer one of the above-mentioned areas as their field of concentration.

C) A minor will be selected by each candidate subject to approval by the Guidance Committee.

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON
BUILDINGS AND GROUNDS

September 10, 1962, 10:30 a.m., Office of the President, U of M

Chairman Haigis presiding

PRESENT: Trustees Haigis, Cashin, Pumphret, Schuck, and President Lederle. Also present, Treasurer Johnson, Secretary Ryan, Provost Woodside. Present for part of the meeting: Mr. Gordon Ainsworth, Judge Blassberg, Mr. Russell Barnes and Mr. Corwin H. Rose and Mr. & Mrs. Grandonico

Chairman Haigis opened the meeting with the request for the ideas of the members of the committee with respect to procesures for conducting committee business and particularly for ideas regarding the kinds of information necessarily to be provided the Chairman with respect to buildings and grounds projects on the University campus. Trustee Pumphret agreed to provide the Chairman with a copy of the monthly progress reports submitted by architects on projects to the Building Authority.

Treasurer Johnson introduced the question under land acquisition of policy considerations arising out of discoveries in land subsoil analysis. Mr. Russell Barnes, for Gordon Ainsworth & Associates, reported to the committee that subsoil analysis tests had revealed existence of a serious soft clay problem in the area west of the campus where the football field and a future field house are planned. A layer of soft clay of up to 100 feet in depth underlies much of the land otherwise thought to be available for building on the campus running from the southern to the northern limits of the campus. The problem gets more acute as one moves from the east to the west of the campus, as the upper crust over

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the soft clay layer gets thinner. The existence of this problem means that construction costs are higher for building on land with the soft clay layer underneath it. The additional construction costs vary from zero to twelve dollars per square foot (square footage of the ground area covered, not total square footage of multi-story buildings). For low buildings, Mr. Barnes thought that added costs would aggregate approximately one to two percent of square foot costs. This additional cost was principally in the form of modifying the footings used in construction of the buildings. For higher buildings, it would be necessary to sink steel piling through the clay layer and this would occasion the higher building cost of up to $18.00 per square foot of ground area covered. The Chairman pointed out that these facts were extremely important to making decisions on the location of the athletic facilities and other buildings which had tentatively been planned for the areas generally affected by this problem. These revelations also have important bearing on decisions with respect to land to be acquired for University purposes.

Action with regard to several properties under process of acquisition by the University was discussed. Appraisals were examined and upon motion duly made and seconded, it was

VOTED: To authorize Judge Blassberg to prepare votes that the committee hereby recommend for passage to the Board of Trustees with respect to the following properties:

Brown Property

1. The Brown property - land which is being purchased by the University but title to which is affected by certain easements held by the town for drainage purposes.

2. The Doleva property - to change purchase previously voted to a friendly taking by eminent domain to clear a title defect and easement held by the town for drainage. — Doleva Property

3. The Tokasz property - to obtain a third appraisal on this property in order to facilitate a settlement. — Tokasz Property

4. The Holmes Property - to obtain additional appraisal on this property for which the University has a 90-day option of $50,000. — Holmes Property

5. The Wysocki property - to recommend purchase for which the University has an option at $60,000. — Wysocki Property

6. The Britt property - to recognize the permission of the owner of the house on the Britt property to move that house with the understanding that the price paid for the property was net of the value of the house - the net price being $15,000. — Britt Property

Action on the Adams property which lies in the northern extremity of the campus was discussed. It was pointed out that approximately 19 acres of the Adams property lying to the east of North Pleasant Street on the North end of the campus lies within the area generally intended that the University acquire, but that Adams also has approximately 30 acres on the west side and slightly northerly of the other property which may well be available if the east plat is to be taken. It was — Adams Property

VOTED: To recommend acquisition on this additional Adams property in view of the fact that it can be used for future University expansion provided it can be obtained at approximately the appraisal price of $58,000 for the entire farm of about 50 acres.

After discussion, it was duly moved, seconded and

VOTED: To obtain a fourth appraisal on the Szymkowicz property to prepare for a settlement on this property taken earlier by eminent domain. — Szymkowicz Property

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Appeal by Mr. & Mrs. Grandonico

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Grandonico Property

The committee received Mr. & Mrs. Grandonico, proprietors of the business on land which has been taken by eminent domain by the University, but over which negotiations are still unresolved with regard to the price to be paid. Mr. Grandonico told the committee that there was apparent difficulty in resolving the differences he had with the Treasurer in coming to an acceptable price for his property. He described the income he earned from his property and the investment he had made since acquring it in 1946. On the basis of these factors, he indicated that he desired $50,000 for the property. Impartial appraisers of his property made at the request of the University had come to less than $28,000. In discussing the problem with the Grandonicos, the Trustees pointed out that their responsibility for public funds and the requirement that they work within the restrictions of the law placed on them seemed to indicate that the great disparity between the appraisals received by the University and the price desired by the Grandonicos made it impossible to come to terms. It may be necessary for him to refer the matter to the jurisdiction of the courts. Furthermore, the Grandonicos requested that whether the matter of the price was settled or not, would it be possible for them to remain on the property in business until June of 1963? It was indicated that the entire matter would be referred to the Trustees.

After discussion of the implications of the tentative and preliminary report on subsoil conditions, the committee upon motion being duly made and seconded

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VOTED: To authorize Treasurer Johnson to obtain appraisals on land lying south of the University campus from the Brown property to as far as Amity Street in the area west of the houses on Sunset Avenue to Route 116 by-pass. — Land Appraisals

On the recommendation of architects - old projects, the committee discussed at length and upon motion being duly made and seconded

VOTED: To recommend to the Board of Trustees the following with respect to projects already under study or design:

1. U59-6 Engineering Building and Service Building for the Experiment Station - William W. Drummey, Boston. — Engineering Building

2. U63-7 Improvements and additions to the Power Plant and utility distribution system: — Power Plant

   a. Steam and Electric - Merrill Associates, Boston.

   b. Water, Drainage & Sewer - Whitman & Howard, Boston.

   c. Study of Power Plant, electric generation, fuel, and utility distribution - Stone & Webster, Inc., Boston.

3. U63-3 Coal Storage Facilities - Stone & Webster, Boston. — Coal Facilities

4. U63-1 Administration Building - Campbell & Aldrich, Boston with Pietro Belluschi of Cambridge as design consultant. — Administration Building

On the recommendation of architects - new projects, the committee took up the matter of recommending an architect for the new Fine Arts Building. Upon a review of the recommendations of design coordinator, Pietro Belluschi and in examination of the work of a number of architects, the committee upon motion being duly made and seconded

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Classroom & Laboratory Building

COMMITTEE

VOTED: To recommend that the Board of Trustees recommend to the Commission on Administration and Finance for project U63-5 Classroom and Laboratory Building (Fine Arts) for the College of Arts & Sciences (plans), in order of preference:

1. Minoru Yamasaki, Detroit, Michigan
2. I. M. Pei & Associates, New York City
3. Harry Weese, Chicago, Illinois

The committee considered the requirement for making a recommendation for an architect for the addition to Machmer Hall. After general consideration and upon motion being duly made and seconded, it was

Machmer Hall addition

VOTED: To recommend that the Board of Trustees recommend to the Commission on Administration and Finance the selection as architect for U63-4 - Addition to Machmer Hall (plans), in order of preference, the following:

1. James A. Britton, Greenfield, Mass.
2. The Architects Collaborative, Cambridge, Mass.
3. William W. Drummey, Boston, Mass.

The committee considered the problem of selecting an architect for the new Poultry Plant. In the course of discussion, the members indicated that it would be extremely helpful to have recommendations from their design coordinator (Belluschi) before making a decision. Accordingly, upon motion being duly made and seconded, it was

Poultry Plant

VOTED: To recommend to the Board of Trustees that they defer the recommendation of an architect for the U63-6, New Poultry Plant (plans), to permit further consideration of the matter, and to request that an extension of time for submitting recommendations be granted by the Commission on Administration and Finance.

In connection with the question of the renovation of certain older classroom buildings, the committee considered the problem in some detail, and upon motion being duly made and seconded

VOTED: To recommend to the Board of Trustees the selection of Louis W. Ross as the architect for the renovation of the Large Animal Building - Federal Funds, $9,500; Gift, $1,000; Estimated State Funds, $8,500 with the architect's fee to be charged to the gift not to exceed $1,000.

Large Animal Building

And

VOTED: To defer consideration of architects for the renovation of other buildings under project U63-2.

Acceptance of Buildings

After inspection by the University of Massachusetts Building Authority, the committee

VOTED: To recommend to the Board of Trustees the acceptance of Dormitory A - Gorman House.

Gorman House acceptance

Conditional Acceptance of Buildings

After inspection, the committee

VOTED: To recommend to the Board of Trustees the acceptance of Dormitory B - Brett House - conditional on the completion of remaining work according to plans and specifications.

Brett House

The committee took up the question of recommending a name for the new School of Business Administration Building and after general discussion and upon motion being duly made and seconded, it was

VOTED: To table the question of the recommendation of a name for the new School of Business Administration Building pending further investigation and development of a policy for naming buildings.

Business Administration Building

Procedures

The committee considered the question of conditional acceptance of buildings and projects by the Board of Trustees. It was felt that the problems involved in inspecting the projects expeditiously and coming to a recommendation for acceptance to be

presented to the Board could best be handled by having monthly meetings of the Buildings and Grounds Committee. It is the intention

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of the chairman, therefore, to arrange for monthly meetings at the convenience of the committee members in so far as possible.

The meeting was adjourned at 5:30 p.m.

John W. Ryan
Secretary, Board of Trustees

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UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS AND GROUNDS

September 27, 1962, 10:45 a.m., Office of Dean Pietro Belluschi, M.I.T., Cambridge, Mass.

Chairman Haigis presiding

PRESENT: Trustees Cashin, Haigis, Pumphret, Schuck, and President Lederle. Also Treasurer Johnson and Secretary Ryan

The purpose of the meeting was to focus on overall plans for campus environment and to discuss with Dean Belluschi specific recommendations of architects for several projects now authorized. By way of introduction, Dean Belluschi discussed the importance of architecture and environmental planning to an institution of higher learning. He said that the total campus layout must provide an environment in which ideas can exist. If it be possible, the students should be exposed to ideas and concepts which they may acquire by "osmosis" if by no other way. Students come to a university in their most sensitive period of life and are able to acquire more understanding of culture from such things as architectural environment than, perhaps, books. On a campus each building should be related to the rest. Space is also architecture - that is layout and landscaping are important and their planning is inseparable from sound campus planning. For a public institution of higher learning, the overall goal should be to design buildings that blend together, which are properly placed, being neither excessively modernistic nor old fashioned. Some buildings are examples of what not to do. Architecture should be "an understatement", giving careful attention to detail. A public institution should not be ostentatious because it cannot afford it either from the financial

or from the public relations point of view.

Selection of architects for public buildings involves critical decisions because not only is it necessary to select an architect with fine ideas and great talent, it is also important to recognize that one cannot "hold his hand". What is needed in an architect is more than a talented designer; he must also have a sound organization behind him that understands building budgets and the organization involved in carrying through a project. One must also consider that architects are very busy. One cannot select a big name and be certain that that person will actually do the work. Selecting an architect whose home base is at some distance is no longer a substantial technical problem.

It was pointed out to Dean Belluschi that the University of Massachusetts has different kinds of construction jobs. Because the kind of job varies, the kind of architect required may vary. The University building program, for example, includes original construction projects, additions to existing structures, renovation and other kinds of work. The overall theme on the University of Massachusetts campus is unity, which stresses simplicity of design and careful attention to details. This means that even if the greatest architects in the world were available, selecting each to build a monument of his own would result in a campus hodgepodge. The result would be disunity, and the Board of Trustees has no desire to see this happen. Dean Belluschi said that Massachusetts has as many good architects as any other state. Given the work load, however, and the fact that different kinds of projects require different kinds of architects, the local supply of architectural services for the jobs that are needed at the moment may prove to be inadequate

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at a given time.

It was further pointed out that the Board of Trustees itself brings to this problem a wide variety of experiences and background with respect to campus organization and architecture. The Trustees themselves are familiar with institutions which vary widely in design. The result of this is to bring to bear on any given question of architect selection a broad range of experience and aesthetic preference.

An immediate problem facing the Board discussed by the committee is the question of conflicting preferences with respect to architects between the Board and the Commission on Administration and Finance. The question may be stated in this way: will the Commission on Administration and Finance accept one of the three firms recommended for each campus project thus justifying the time expended by the Board members in arriving at the recommendations? The position of the Board, it was felt, is strengthened now that its recommendations are arrived at through a process which includes participation of expert advisers such as Dean Belluschi. With respect to additions and renovations on existing structures, the question was raised whether Dean Belluschi was prepared to make recommendations for architects or whether the original architect of the building should be used if available. Belluschi's reply was that generally it is best to use the original architect. Sometimes he said conditions call for exercising extreme caution so as not to ruin a good old building by an ill-conceived change in the original structure.

The Engineering Building was reported to have been completely reviewed as to plans and specifications and ready to go to

bid. Dean Belluschi reported that even though planning had virtually been completed prior to his having been retained by the

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Board as an adviser, he reviewed the Engineering Building plans. He said that he thinks it is sensitively done (the architect is William W. Drummey) and if the work proceeds well and good brick is selected, it should be a good building. After general discussion and upon motion being duly made and seconded, it was

Engineering Building

VOTED: To accept the plans for the Engineering Building for recommendation to the Board of Trustees for acceptance.

Administration Building

The Administration Building (Campbell & Aldrich) was discussed. Dean Belluschi reported that the architects had submitted the preliminary sketches of elevations showing three alternatives. The committee and the Dean reviewed the three preliminary sketches and agreed that the one identified as scheme C is the preferable. Dean Belluschi said that he is satisfied with the beginnings and that the architects are moving ahead.

Food Technology Building

The additional structure for Food Technology was discussed. It was pointed out that this project has been under design for four years. The plans and specifications are now ready for final approval. Some problems both with the site planning and the elevation of the structure were pointed out, but it was understood that to make major changes in either would begin the process all over again. The result would be not only loss of time but loss of a considerable portion of the financial investment represented by the plan which may total as much as a hundred thousand dollars. It was generally felt that the plans for the building would be greatly improved by the introduction of certain changes. Dean Belluschi agreed to talk to the architect and to recommend to him the necessary changes.

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Discussion of the alternative of beginning all over again to plan the building should be deferred until after an attempt to make the changes that would improve the present design.

Fine Arts Building

It was reported to Dean Belluschi that the Board of Trustees had recommended three architects in order of preference: Minoru Yamasaki, I. M. Pei & Associates, and Harry Weese. Dean Belluschi commented that Yamasaki is registered in Massachusetts and is the architect of a building currently under construction at Harvard University. It was reported that Sasaki, Walker & Associates are at present preparing a report on the location of the building on campus. Some alterations in original intentions may be necessary due to topographical conditions.

Machmer Hall Addition

It was reported that the Board of Trustees had recommended as architects for the addition to Machmer Hall the following architects in order of preference: James A. Britton, The Architects Collaborative and William W. Drummey.

Poultry Plant

This construction was reported to consist of many small buildings with one to be larger size and to contain laboratory facilities. No recommendation had been settled by the Board of Trustees, but discussion had centered on recommending Northeast Agricultural Engineering Service of Hampden, Massachusetts. Dean Belluschi said that the Board should insist that architects should be considered with great care. It may be that this firm should be recommended for the job and that they would retain an architect as a consultant to design the laboratory building. If so, then it should be asked to suggest an architect for consultation purposes. Normally an architect recommends engineers, but there is no reason

for the reverse to be true if circumstances warrant. It was reported to the committee that the Division of Building Construction

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had requested recommendations for architects for studies of building projects. These studies are financed not out of funds belonging to the University but out of funds of the Division. The projects for which studies are requested are:

1. The Graduate Research Facility - a three million dollar project. The emphasis on this facility is to provide an internal plan for the building which will permit extreme flexibility, with movable partitions and other movable features.

2. A Classroom Building (Arts and Sciences) a two and a half million project.

3. Agricultural Research, Instruction and Farm Service Facility (South Deerfield) this is a one and a half million dollar project which involves the construction of a modern set of farm buildings and laboratories which again must stress flexibility and adaptability for use.

Question was raised whether decision had been made or was still open with respect to expansion of Arts and Sciences Building (Bartlett Hall) by an addition to the original structure or by a new building. It was reported that Sasaki, Walker & Associates are studying the question of building location and included in this is the question of whether to expand Bartlett Hall or to construct a new building. In the course of general discussion, it was pointed out that the campus of a great university should show some of the finest artistic creations of the times. Dean Belluschi agreed but he said that a state institution is limited in its ability to do this. Nevertheless, a beautiful and inspiring aesthetic effect can be created by careful attention to detail, careful selection of material, and by paying respect to scale and to space utilization. The Chairman suggested that the question of architects for project

studies be taken up by the committee at its meeting on October 16th.

The question was raised whether plans had proceeded with respect to the elimination of vehicular traffic from some of the streets on campus and limiting them to pedestrian use. It was reported that Sasaki, Walker & Associates in their general locational plans include recommendations for a traffic circulation plan as well as recommendations for the location of the football facility.

The meeting adjourned at 12:30 p.m. to be reconvened at 2:30 p.m. in the office of the Honorable Charles Gibbons, Commissioner of Administration and Finance.

The Trustee Committee on Buildings and Grounds reconvened at 2:30 p.m. in the office of the Honorable Charles Gibbons, Commissioner of Administration and Finance. Chairman Haigis presided over the meeting which was attended also by Trustees Pumphret, Cashin, Schuck and President Lederlé, and Treasurer Johnson and Secretary Ryan were also present.

Fine Arts Building

The Chairman said that the main purpose of the meeting was to enable the Board of Trustees to reach a basis of understanding with the Commission with respect to the submission of recommendations on architects and the subsequent selection of architects for buildings for the campus of the University of Massachusetts. As a focus for coming to this understanding, the recommendations were presented for architects for the Fine Arts Classroom Building in order of preference:

1. Minoru Yamasaki
2. I. M. Pei & Associates
3. Harry Weese

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Commissioner Gibbons stated the general policy of the Governor, the Commissioner and the Division of Building Construction was that the best architects available within the state should be selected for a project. There had been a departure from this policy with respect to the State Office Building, and a good deal of trouble and difficulty had been experienced. The Trustee Committee agreed that wherever possible Massachusetts architects should be selected for construction of buildings on the University of Massachusetts campus. This is certainly the feeling of the Board of Trustees, and it was endorsed by its consultant, Dean Pietro Belluschi. In some cases, however, the construction of a building on a university campus may call for a spirit or theme that is different from that which could be obtained from among those Massachusetts architects available. Therefore, in keeping with the idea that buildings on the University campus ought to reflect some of the finest architectural expression of the time and ought to be inspirations and educational media in aesthetics for students, the occasion may arise from time to time when an out-of-state architect will be recommended by the Board for selection. The occasions are governed not merely by unavailability of local architects, but also by the desire to include among the edifices on campus examples of some of the finest in the architectural field.

Overall, the general theme of planning and construction at the University influences recommendations for architects, in order that simplicity, careful attention to detail, and sensitive selection of building materials be preserved. Mr. Gibbons said the Governor does oppose as a general matter the use of out-of-state architects.

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Machmer Hall Addition

The Trustee Committee referred to the addition planned for Machmer Hall and presented the recommendation of the Board of Trustees in order of preference:

1. James A. Britton
2. The Architects Collaborative
3. William W. Drummey

Commissioner Gibbons replied that the Division of Building Construction had already recommended the architect which appeared at the top of the list of recommendations from the Board of Trustees. The Board pointed out to the Commissioner that there was great hope that an understanding could be reached on the procedures by which architects could be recommended and selected. It is important to know the extent to which recommendations from the Board of Trustees will be honored in the selection of architects. For one reason, the Board could be highly embarrassed if its recommendations are ignored and architects whom it has contacted to determine their availability are ultimately rejected. Furthermore, members of the Board of Trustees and the Trustee Committee on Buildings and Grounds invest much time and effort in participating in the formulation of recommendations for architects.

The consultant to the Board, Dean Pietro Belluschi, is a nationally recognized consultant in the field of architecture. He has advised the Board that it must think in terms of getting the most value for the construction dollar and he is concerned both with economy of construction and the preservation of aesthetic values. The Board of Trustees and their consultant, Dean Belluschi, realize that uniqueness of design is not suited to the campus. Recommendations for architects from the Board will reflect the aim to achieve unity of architectural expression on campus, rather than a

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hodgepodge of monuments to a number of outstanding and talented architects. The University administration and the Board of Trustees want to achieve an expression of art and architecture and to create an environment that will be conducive to the complete education of the student in the appreciation of beauty, design, and aesthetic value.

Finally, it was pointed out that fine architecture is not necessarily expensive architecture. Perhaps the most expensive architecture is that which is provided by careless and incompetent architects whose services result in unacceptable or inadequate plans. At the present, the administration is faced with the problem of accepting unsatisfactory designs for buildings thus threatening the unity, harmony and beauty of design of that portion of the campus in which the building will be located, or of beginning over again the preparation of designs and specifications with the consequent discarding of the work already done despite the financial investment in that work.

Commissioner Gibbons suggested that he welcomed the recommendation of the Trustees and that before any selections are made by his agency, he will contact the University of Massachusetts to determine the reaction of the administration and the Board of Trustees to the architect desired by the Commission.

It was decided by the committee to submit the recommendations of the Board to the Commissioner by letter, with the understanding that before an architect should be assigned, the Commissioner will check with the University administration and inform them of the preferred choice. The Commissioner said that an

architect will not be assigned over the strenuous objection of the Board of Trustees of the University.

OMMITTEE

The meeting adjourned at 3:45 p.m.

John W. Ryan
Secretary, Board of Trustees

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON
FACULTY AND PROGRAM OF STUDY

COMMITTEE

October 18, 1962, 10:15 a.m., Statler Hilton Hotel, Boston

Chairman, Trustee Crowley

PRESENT: Trustees Crowley, Haigis, Brown, Furcolo, Kiernan, Schuck, President Lederle, Secretary Ryan, Treasurer Johnson and Director of Institutional Studies Redfern

The meeting was called to order by the Chairman, Trustee Crowley. The Chairman asked President Lederle to set the informal agenda for the meeting. President Lederle said that this was to be a working meeting and probably the members would prefer not to make any final decisions. Background statistical and comparative data was prepared for presentation which would indicate the framework within which administrative plans for the University would have to be determined. Among these administrative plans is the plan for salary actions under autonomy legislation. At this point the President requested Dr. Redfern to proceed with the presentation of the data.

Dr. Redfern, with the aid of charts and bar graphs, discussed at length the framework within which salary policy had been recommended. Among the items covered were:

1. An indication of the situation from 1955-1975 with respect to the number of Massachusetts college-age youth in the population, the number expected to demand admission to institutions of higher learning, the number of which could be accommodated according to present plans by private institutions of higher learning within the state, institutions outside the state, public institutions other than the University, and, finally, the University of Massachusetts. By 1975, Dr. Redfern indicated, the conservative estimate of college-age youth in Massachusetts expecting public higher education beyond the planned capacity of private schools and admission at out-of-state institutions - approximates 97,000 of whom approximately 50,000 can be accommodated in terms of present facilities and projected expension.

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2. Data relative to the sources of financial support for the University of Massachusetts. Among other things these data indicate relative decrease in the amount of public tax support from the state from 54% to 48% of the total cost of the University program.

3. The rank of Massachusetts with respect to the rest of the states in the Union for certain selected characteristics including per capita income, per capita property tax payments, per capita expenditures for education and others.

4. The ratio of public expenditures for public higher education in Massachusetts as compared with other New England states.

5. The ratio of public expenditures for public higher education in Massachusetts with respect to other comparable states in the Union, outside of New England, whose universities have achieved a level of excellence.

6. Comparison of the salaries of related professional groups and the improvements in them over recent years compared with faculty salaries over the same period.

7. Comparison of the salaries of professors at public institutions of higher education in New England.

8. Comparison of University of Massachusetts salary maxima with selected institutions of higher education across the country.

9. Data relative to the proposed salary adjustments at the University of Massachusetts.

With respect to the comparative position of the University in terms of faculty salaries, Dr. Redfern indicated that the use of the AAUP averages as a basis of comparison was subject to misinterpretation. The major reason for this is that the averages are derived by comparing institutions of widely divergent objectives, size, and quality. The administration and Board of Trustees must be prepared to deal with the comparison of the University with AAUP averages because various public groups will employ this comparative device. Even though the Board of Trustees will not necessarily be influenced by the comparison, the comparison

itself and analyses of its shortcomings must be available.

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The question was raised whether the University of Massachusetts should expect to compare itself with universities of much greater size conducting some functions not presently carried on by the University of Massachusetts; for example, the Universities of Michigan or Illinois. President Lederle responded in the affirmative if it is understood that such a comparison is in terms of an objective. The most meaningful comparison of data regarding faculty salaries or other matters is in terms of the gap which must be closed to bring the University of Massachusetts up to the level to which it aspires, which is more that of the leading institutions of the country than that of regional institutions in New England. The salaries at the University, for example, should be correlated with other universities not on the basis of comparability of enrollments or geography but rather on the basis of quality.

The administration of the University and the Board of Trustees must be concerned with relationships with the public and with the Legislature. The history of legislation dealing with the public service in Massachusetts indicates a preference for equal, across-the-board treatment for all public servants in terms of salary increases or other benefits voted from time to time. Even though the autonomy legislation establishes a basis for separate and unique actions by the University, with respect to its personnel, undoubtedly it will be necessary to be prepared to justify and rejustify the propriety and necessity of these actions to various public groups and the Legislature.

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In the course of general discussion on the recognition of the need for salary action by the Board of Trustees, committee members asked by what procedures were decisions made with respect to recommending faculty members for salary adjustments. The President responded by outlining the general framework for action. He pointed out that the recommendation which is presented to the Board of Trustees represents the ultimate result of a democratic process of institutional decision-making. The process begins in the Department with a personnel committee and the Head of the Department determing departmental recommendations for salary actions. These determinations and recommendations are sent to the dean of the college or school involved who was responsible for reviewing them, making his own determinations, usually in consultation with an executive committee, and making recommendations to the Provost. At the Provost's level, there is general review for policy and budget purposes as well as to maintain a balance among the schools and colleges. At this point, recommendations are made to the President who then determines the recommendations to be made to the Board. Discussion turned to the question of the role expected of the Trustee; that is, what is the extent of the Trustee's responsibility to go into the matter of the recommendations. The President indicated that in his acquaintance with Trustee responsibility at the University and comparable institutions around the country, the Trustee responsibility is one of policy determination and review, with reliance on the administration for the application of policy to the schools and colleges, the departments and to the faculty members.

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Under autonomy, the University administration and the Board of Trustees have an obligation and an opportunity to review many practices and policies of the University. The committee agreed that review and action in all of these policy matters should come slowly under autonomy in order to move soundly. In the near future, the Board of Trustees would be asked to consider policies relating not only to salary matters but also with respect to faculty tenure, the nature and tenure of department headships, sabbatical leaves, and other matters.

The committee members suggested that it would be advisable to have an informational release on the actions of the Board prepared for review by the Board prior to actual release after the meeting is over and the action has been taken. This statement should clearly indicate that these salary actions are a first step, and necessary subsequent actions will be taken by the Board of Trustees to preserve and advance the quality of the University of Massachusetts.

The committee agreed that in bringing this matter before the full Board at the next meeting, it would be desirable to have documentation of the legal requirements of the University in taking actions such as these under autonomy legislation as well as advice and counsel received from the Attorney General, if any. It was further suggested that a presentation much like the one made by Dr. Redfern to the committee at this meeting would be helpful if repeated at the full Board meeting. Furthermore, the full Board should have a written policy statement for approval dealing with the procedure for personnel review at the department, college, Provost and Presidential levels in the University; as well as all

of the documentation which had been prepared for this present meeting -- which are attached to these minutes and numbered Documents FPS 63-01, 63-02, 63-03, 63-04, 63-05, 63-06.

The meeting was adjourned at 3:30 p.m.

John W. Ryan
Secretary of the Board of Trustees

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS AND GROUNDS

COMMITTEE

October 23, 1962, 12:30 p.m., Student Union, U of M

Chairman Haigis presiding

PRESENT: Trustees Haigis, Lederle, Cashin, Pumphret, Schuck. Also present, Secretary Ryan and Treasurer Johnson. Through part of the meeting were Professor Theodore Bacon, Mr. Galehouse, Mr. Yost and Mr. Gardescu.

The Chairman opened the meeting and invited the attention of the members to the Comprehensive Circulation Study - #1 which had been prepared by Sasaki, Walker & Associates, Inc., as design and planning consultants to the University of Massachusetts. The Chairman introduced Mr. Richard Galehouse, representative of Sasaki, Walker & Associates, who discussed the report. Mr. Galehouse said that the Comprehensive Circulation Study was intended to provide guidance on development in the Amherst region, in the town and on the campus. Study #1 was intended to provide a decision-making framework which would indicate the volume of traffic and its circulation with consequent effect on the location of principal facilities on campus. It is not intended to be a detailed site plan.

The committee heard statements from Mr. Galehouse, Mr. Yost and Professor Bacon. These statements produced the following information for the committee:

Comprehensive Circulation Study

1. Amherst is located only 20 miles from the #2 population center in the state. The Benjamin plan (the Sasaki, Walker & Associates team worked very closely with Mr. Allen Benjamin who is the town planning consultant) which contemplates the construction of "loop routes", offers the prospect of alternative high capacity, high speed traffic routes around the campus area of the University.

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2. This Comprehensive Circulation study has been carried far enough to arrive at regional and town planning proposals and new campus traffic pattern studies are necessary and are underway.

3. Costs of the program for providing circulatory high capacity, high speed routes will undoubtedly require participation by the state, the University and, to some extent, the town.

4. At the next Amherst town meeting there will be an attempt to establish the exterior street lines for that portion of the circulatory route in the plan which is to be done by the town. Reports are made every two weeks by the Town Planning Board to the Town Selectmen so that the town is kept abreast of the intentions of the Town Planning Board. The plan growing out of the Comprehensive Circulation Study takes into account more growth than the near future promises and reflects an estimate of the total population growth of the region.

Sports Facility

Consultants indicated that several factors influenced the recommendation of the site for the Sports Facility (football stadium). These included:

1. The amount of land required for the structures and ancillary parking.

2. Placement of the facility so that it was convenient to the campus but not interruptive of other campus activities.

3. To take into account the desirability of future placement of a field house in proximity to the stadium and its parking facilities.

4. To place in proper relationship with respect to new dormitory construction and to commuter parking facilities.

5. The movement of traffic.

6. Existing soil conditions.

It was reported that funds are available for the purchase of land needed for locating the Sports Facility on the proposed site. Appraisals are already being made and by January, 1963 it is hoped that recommendations will be ready to request Board action to

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acquire all of the land needed. In the opinion of Gordon Ainsworth & Associates, Registered Land Surveyors and Civil Engineers, the site is ideal for the Sports Facility. The parking facilities designed for the Sports Facility include a commuter student parking lot that will accommodate initially 1500 vehicles. As the University enrollment approaches 20,000, the University can expect pressure to provide parking for 6,000 faculty, staff and commuter automobiles. While parking lots take up substantial land expanse, parking ramp facilities are prohibitively expensive unless land costs are very high. The present parking facilities illustrated on the Circulation Study and preliminary location plans are diagrammatic only. Even when constructed, parking lots remain available for use as future construction sites.

Traffic circulation routes and the Sports Facility are in conformity with town development plans and University expansion plans. The high cost of construction of the circulatory routes does create financing difficulties. Part of the solution to this problem lies in staging the development to fit annual town actions into the overall plan. It may be necessary to make special requests to the Legislature for state support of part of the program. After general discussion and upon motion being duly made and seconded, it was unanimously

VOTED: To recommend to the Board of Trustees the acquisition of land required for the proposed site of the Sports Facility.

To recommend to the Board of Trustees to approve the proposed site for the Sports Facility with the exact location of the structure itself to be determined in consultation with the architect appointed by the University of Massachusetts Building Authority, the University Design Coordinator,

Mr. Belluschi, Mr. Sasaki, and Gordon E. Ainsworth & Associates.

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Trustee Pumphret, Chairman of the Massachusetts Building Authority, informed the committee of the status of the various projects which have been approved by the Board of Trustees. The Authority had experienced some problems in determining alternative methods of finance, but was moving ahead on the projects.

Project Status

The committee received a project status statement (BG 63-01) which indicated the schedule of construction and present stage of completion for various University projects. The Chairman reported that visual presentations showing the status of projects under construction or approved for construction are being prepared to improve communications with the Board and to save time at the Board meetings in making the report of the Buildings and Grounds Committee.

Recommendations to the Board

1. The Poultry Plant - it was

Poultry Plant

VOTED: To recommend to the Board of Trustees the approval of the Northeast Agricultural Engineering Service, Ludlow, Massachusetts with the provision that an architect be retained for consulting purposes by Northeast Agricultural Engineering Service with the choice of the architect subject to the approval of the Board of Trustees; and further communication of the recommendation if approved by the Board of Trustees to the Commission on Administration & Finance shall include documentation supporting the choice and recommendation by the Board.

2. Research, Instruction and Service Building - College of Agriculture (study). The Dean of the College of Agriculture hopes that the architect for this facility gets agricultural engineering advice in the work. The project involves many buildings including barns, an arena, research laboratories and others. It is a multi-purpose facility. There may

Research, Instruction & Service Building

be some desirability in emphasizing experimentation in the designing itself in an effort to improve architecture and construction for agricultural purposes. After general discussion, it was agreed by the committee that the matter of an architect for Research, Instruction and Service Buildings should be discussed again with architectural consultant Dean Belluschi.

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3. The Arts & Sciences Classroom Building - Upon motion being duly made and seconded, it was

Arts & Sciences Classroom Building

VOTED: To recommend to the Board of Trustees the approval of the following architects in order of preference for selection for the design of the Classroom, Laboratory, and Office Building for College of Arts & Sciences (study).

1. Horacio Caminos, Cambridge
2. Carl Koch, Cambridge
3. William H. Brown, Boston

If approved by the Board of Trustees, this recommendation is to be communicated to the Commission on Administration & Finance including a letter of documentation supporting the choice recommended by the Board.

After general discussion and upon motion being duly made and seconded, it was

Graduate Research Facility

VOTED: To recommend to the Board of Trustees the approval for work on the Graduate Research Facilities (study) the following architects in order of preference:

1. The Architects Collaborative, Cambridge
2. Frederick A. Stahl, Cambridge
3. Pierce and Pierce, Boston

If approved by the Board of Trustees, this recommendation is to be communicated to the Commission on Administration & Finance including the letter of documentation supporting the choice recommended by the Board.

Reconditioning of Older Buildings (study)

Reconditioning of older buildings - an architect had been appointed to make a study which includes many projects on the campus. The study has never been made. It is possible that the study should be deferred or cancelled. It was decided to consider the matter

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further before making any recommendations.

Medical School - After general discussion and upon motion being duly made and seconded, it was

Medical School

VOTED: To recommend to the Board of Trustees that a letter be sent to the Commission on Administration & Finance explaining that recommendations for architects for the construction of a Medical School should not precede selection of a Dean for that School, the determination of the policies and programs of that School, and the selection of a site.

Land Acquisition

Judge Blassberg requested the committee to recommend to the Board of Trustees that they approve by unanimous vote the acquisition by eminent domain of the Doleva property. After general discussion and upon motion being duly made and seconded, it was

VOTED: To recommend to the Board of Trustees that a unanimous vote from the Board of Trustees authorize the acquiring of the John S. Doleva property by eminent domain in fee.

Doleva Property

In accordance with Chapter 544 of the Acts of 1961, Item 8262-12 authorizing the Trustees of the University to purchase certain land with the buildings thereon for the development of the University and the authority granted therein, an independent appraisal of the value of the land and buildings having been made by qualified, dis-interested appraisers and filed with Kenneth W. Johnson, Treasurer, on motion duly made and seconded it was unanimously

VOTED: To recommend that the Trustees of the University take by eminent domain in fee the property of John S. Doleva consisting of Three (3) acres of land, more or less, in Amherst, Hampshire County, Massachusetts, lying westerly of Sunset Avenue and at the westerly end of a right-of-way known as Fearing Street Extension, more particularly bounded and described as follows:

Being the same premises described in a deed to the said John S. Doleva and Margaret Doleva recorded in the Hampshire County Registry of Deeds, Book 925, Page 216, the said Margaret Doleva having died full title is vested in the said John S. Doleva.

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It was reported to the committee that by November 9, 1962 meeting there may be other recommendations for land acquisition if appraisals now underway are completed. All the parcels that could be involved have already been discussed before the committee and it was the general feeling of the committee that there will be no objection to bringing such recommendations to the Board for action at that meeting if appraisals are completed.

There being no further business, the meeting adjourned at 4:30 p.m.

John W. Ryan
Secretary, Board of Trustees

COMMITTEE

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF CONMITTEE ON RECOGNIZED STUDENT ACTIVITIES

November 15, 1962, 1:00 p.m., Student Union, Amherst

Chairman Schuck presiding

PRESENT: Trustees Furcolo, Haigis, Pumphret, Schuck, President Lederle. Also present were Secretary Ryan, Dean Field, Mr. Scott, Director of Student Union, Dean Curtis, Dean Hopkins & seventeen students (names and offices on attached list).

Trustee Schuck suggested four general areas in which discussion between the Trustees and the students could be fruitful:

1. The role of extra-curricular activities in the life of a student and the relationship of such activities to academic achievement.

2. Student-faculty relationships at the University of Massachusetts.

3. The contribution students can make to a great state university.

4. The role of Trustees of the University of Massachusetts in making student activities meaningful.

The first topic was selected for discussion.

Students

Students made the following points:

1. The extra-curricular activity often forms an important dimension in the life of a student not simply as a release for energy or social activity but as activity having important vocational and even intellectual implications to the student.

2. Student activities imply the assumption of leadership responsibilities by the students themselves. These leadership activities take time and attention.

3. A proposal was made that some kind of academic credit be offered for certain extra-curricular work such as participation in band, journalism and drama activities.

In some institutions such credit is possible.

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For some students, student activities represent a substantial investment of time and activity. From 12 to 60 hours a week may be spent in an activity. This results in more time being spent on a particular activity than for some of the courses the student is taking. Giving credit for some of the student activity work would result in bolstering the reputation of the activity with both the faculty and administration of the University.

Trustees

Against this general background of student interest in reviewing the reputation and recognition of student activities by faculty, administration and trustees of the University, the trustee members of the committee evaluated the points raised by the students and discussed with them some of the implications. To place the issue of student activities in the proper perspective, the question was raised, "Why do students come to the University?"

Both students and trustees agreed that the availability of extra-curricular activities provided the student with an obligation as well as an opportunity to make choices in the apportioning of his limited time and to gain experience in scheduling it carefully and effectively. Student activities, it was agreed, also prepare the student psychologically and philosophically for accepting obligations of public service and community activity as a supplement to his life work rather than a substitute.

Since there was no time to explore the other three subjects, the chairman expressed the hope that the group could meet again.

The meeting adjourned at 3:00 p.m.; trustees attended the meeting of the University Committee on Recognized Student Organizations.

John W. Ryan
Secretary, Board of Trustees

Student attending meeting

ANDELMAN, Neal	Editorial Editor, COLLEGIAN Newspaper
ANDERSON, Gerald	SWAP (Student Workshop on Activities Problems) Men's Judiciary
ARMSTRONG, Sheila	Secretary, Women's Interdorm Council
BRADLEY, Joseph	Young Democrats LION (Senior Yearbook)
BROWN, Jean	President, Mortar Board (Women's Honor Society)
BURNETT, David	President, Phi Eta Sigma (Freshman Men's Scholastic)
COURTOVER, Donald	President Student Senate
CWIKLIK, Paul	Operetta Guild
DEL VECCHIO, Joseph	Mills House Counselor
HENRY, Steve	Senate Services Committee Recognized Student Organizations Committee
LIPMAN, Stephen	Student Union Governing Board
MAINWARING, David	Radio Station WMUA
MEDEIROS, Rose	Class President Stockbridge School '63
ROSICHEAU, Betsy	Senate Vice President
RAINER, Audrey	Editor, COLLEGIAN Newspaper
TRELEASE, James	COLLEGIAN Newspaper Radio Station WMUA
VALTON, Patricia	Fine Arts Council

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MINUTES OF MEETING OF TRUSTEE EXECUTIVE COMMITTEE

November 23, 1962, 12:30 p.m., Statler Hilton Hotel, Boston

Dr. Frank L. Boyden, Chairman of the Board, presiding

PRESENT: Trustees Boyden, Brett, Healey, Cashin, Crowley, President Lederle and Secretary Ryan

Members of the Executive Committee considered the need for legal counsel in view of the growth and responsibilities of the Board. It was agreed that the committee would report to the full Board at the next meeting on the committee's general feeling that legal counsel should be available to the University.

In general discussion, the members of the committee discussed the increase in demand on the Board members growing out of both the increase in size of the University and increase in the responsibilities of the Board due to recent legislation on autonomy. The committee agreed that careful attention should be paid to the organization of the Board for carrying out its responsibilities, and the possibility that some adjustments should be made in the committee structure and procedure. It was agreed by the committee that a report should be made to the full Board calling for Board approval of a study of the organization of the Board.

The committee took up the matter of making recommendations for honorary degrees for 1963. After general discussion and upon motion being duly made and seconded, it was

VOTED: To present list of candidates approved by the committee to the Board.

The committee received a report from the President on the negotiations with outstanding leaders of business, labor and public affairs with participation in the 1963 Charter Day program. The committee approved the negotiations and

VOTED: To recommend approval of honorary degrees by the Board of Trustees to be conferred upon the participants in the Charter Day program.

The committee approved making a recommendation to the full Board to consider convening some special convocations, particularly in the field of education and business, at which outstanding accomplishments in these fields could be recognized through the conferring of degrees and in other appropriate ways. If possible, these convocations should be held during the Centennial Year.

The meeting adjourned at 3:30 p.m.

John W. Ryan
Secretary, Board of Trustees

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON FACULTY AND PROGRAM OF STUDY

COMMITTEE

December 4, 1962, 11:00 a.m., Statler Hilton Hotel, Boston, Mass.

PRESENT: Trustees Crowley, Brown, Schuck, Kiernan, Haigis, Lederle, Secretary Ryan, Provost Woodside and Treasurer Johnson

The meeting was called to order by Chairman Crowley.

Under-graduate Curriculum Changes

Provost Woodside informed the committee that the curricular change recommendations were intended to streamline the Agriculture curriculum. Many deletions of courses had been made in order to bring the curriculum more up to date. The recommendations represent two years of work at the departmental and college level in Agriculture. The committee discussed the relationship of the College of Agriculture curriculum to its role in an urban society. After general discussion and upon motion being duly made and seconded, it was unanimously

VOTED: To recommend approval by the Board of Trustees of the curricular changes as set forth in document 63-061.

Population Research Institute

The committee considered the proposal to establish the Massachusetts Population Research Institute. In response to questions, it was reported that the Institute is an integral part of the Department of Sociology; features intraschool cooperation in curriculum and research. The Institute would be the fourth such entity on the campus. After general discussion and upon motion being made and seconded, it was

VOTED: To recommend to the Board of Trustees approval of the establishment of the Massachusetts Population Research Institute as set forth in document 63-058.

Graduate Curriculum Changes

Provost Woodside presented to the committee the recommendations from the Graduate Council that certain changes be made in the graduate curriculum. After general discussion and upon motion being duly made and seconded, it was unanimously

VOTED: To recommend to the Board of Trustees approval of the changes in the graduate curriculum as set forth in document 63-059.

Master of Science Degree in Physical Education

The committee considered the request from the Graduate School Council for approval of the graduate program in Physical Education leading to the Master of Science degree in Physical Education. After general discussion and upon motion being duly made and

COMMITTEE

seconded, it was unanimously

VOTED: To recommend to the Board of Trustees approval of graduate program in Physical Education leading to the Master of Science degree in Physical Education as set forth in document 63-060.

Department of Recreation

The committee received and considered a request from Warren P. McGuirk, Dean of the School of Physical Education, that the name of the Department of Recreation Leadership be changed to the Department of Recreation. After general discussion and upon motion being duly made and seconded, it was unanimously

VOTED: To recommend to the Board of Trustees approval of the change of the name of the Department of Recreation Leadership to the Department of Recreation.

Members of the committee agreed to meet again at 10:30 a.m., Saturday, January 5, 1963 in Amherst on the campus of the University of Massachusetts. There being no further business, the meeting was adjourned at 12 o'clock noon.

John W. Ryan
Secretary, Board of Trustees

UNIVERSITY OF MASSACHUSETTS

MINUTES OF MEETING OF TRUSTEE COMMITTEE ON BUILDINGS AND GROUNDS

December 18, 1962, 12:30 p.m., Student Union, U of M, Amherst

COMMITTEE

Chairman Haigis presiding

PRESENT: Trustees Haigis, Schuck, Pumphret, Cashin and President Lederle. Also present: Treasurer Johnson, Provost Woodside, Secretary

The Chairman opened the meeting with the first item on the agenda.

Proposed Gifts of Land to the University

Warren Farm

The Chairman reported to the committee that representatives of the Buildings and Grounds Committee and of the University visited the H. E. Warren Farm of Ashland on Tuesday, October 30. A careful inspection was made of the Farm and its buildings. General conclusions are that:

1. The Warren Farm, as a farm, offers no advantage to the University program.

2. Acceptance of the Warren Farm as a gift with the intention of holding it for future use would cause a financial drain on the University.

3. Acceptance of the Warren Farm in order to convert it into fluid capital for general University use would be of great assistance to the University.

After general discussion and upon motion being duly made and seconded, it was

VOTED: To recommend to the Board that the Board not approve acceptance of the Warren Farm except under terms which permit its conversion into fluid capital for general University use;

And that the administration of the University be authorized to continue negotiations on this basis.

Billings Property

At the request of the Chairman, Treasurer Johnson reported on an offer of the Billings property to the University. Billings property includes a box factory, a saw mill, water rights on Lake Wyola, ten houses and approximately 1300 acres of timber land representing 4½ million board feet of lumber. The acreage,

however, is scattered in some 40 parcels lying in six different towns. At the present stage of negotiation, Mr. Billings asks the University to pay $30,000 plus $6,500 per year for ten years or for life whichever is the shorter period for the timber land only. The Forestry Department at the University is not greatly interested in the property on these terms. The Department is anxious to acquire access to mature timber for research purposes, and the Billings property offers this opportunity. However, the cost of the property if it is to be recovered by exploitation of the resources, and the scattered nature of the property would present substantial problems to a Forestry Department because they are not set up to manage a commercial enterprise of that magnitude. After general discussion it was the consensus of the members of the committee that the committee recommend to the Board of Trustees that they reject the present terms of the offer of the Billings property but indicate willingness on the part of the University to accept an outright gift of some of the prime parcels of mature timber in order to preserve the timber which is standing and to contribute to the research program of the University. It was further agreed that the University administration should continue negotiations with Mr. Billings.

COMMITTEE

Nantucket Property

At the request of the Chairman, Provost Woodside reported on the Peabody estate on Nantucket Island as a potential gift to the University. The property consists of some 70 upland acres and 25 acres of marshland on Nantucket Island including the main residence, a beach house and two garages each able to accommodate three cars, with one of the garages having an apartment in it. The property also includes three vehicles, furnishings and equipment. The property may be of interest to the University because of its great potential usefulness to the marine biology program. At present, what is involved in the negotiation is the 7/8 interest in the property which is now held by the Nina Haven Foundation, plus a possible contribution from the Foundation towards the maintenance of the property for the first year or so after transfer to the University. The remaining 1/8 of the property is in the possession of the American Humane Education Society of Boston which received it from Mr. Peabody prior to his death.

In response to question, the Provost discussed the number of possible uses to which the property could be put should it come under the control of the University. The Provost said that it was an excellent location for biological research because it is in a unique location where both northern and southern flora and fauna overlap. It would be an ideal site for ecological studies. The Recreation Department would be interested in having access to the property for its program purposes. The Food Science and Technology research programs could make good use of this property. The Nantucket property would provide a site away from the campus for seminars and study groups which is not at present available to the University. There is a possible use of the property in the Fine Arts program. Finally, the Provost indicated that the Maria Mitchell Foundation would be delighted to have some access to the property in connection with its responsibilities for instruction

of Nantucket residents in natural history.

COMMITTEE

Mr. Iseman, the attorney of the Nina Haven Foundation, who discussed the Nantucket property and the conditions of the gift with the representatives of the University administration and of the Buildings and Grounds Committee, also explained some of the scholarship activities of the Foundation. It is possible that, in the future, some of the scholarship funds available to the Foundation which are not needed for students in the Stuart, Florida area could be allocated to support students engaged in research at the Nantucket facility. The Provost also indicated that financial support is quite possible from both private foundations and the Federal Government in support of marine biological research.

The Provost showed several colored slides of the property pointing out that some erosion is indicated on the bluffs of the property. It was reported that this erosion is at a slow rate but can be arrested by construction of a barrier which would cost approximately $15,000. It does not, and would not, threaten the main house for many years. After general discussion and upon motion being duly made and seconded, it was

VOTED: To recommend to the Board of Trustees acceptance of the Nantucket property of the late Stephen Peabody subject to acquiring the 1/8 interest in that property now possessed by the American Humane Education Society.

Report on Architects

Architects

At the request of the Chairman, Treasurer Johnson distributed a summary report of the status of recommendations and appointments of architects. The Chairman reported that in the company of the Chairman of the Board, he had met with the Commission on Administration and Finance on December 12, 1962 at the request of the Commissioner. Prior to the meeting, the Chairman informed the entire Commission of the reaffirmation by the Board of Trustees of its previous recommendations with respect to architects. At the meeting, the Commissioner on Administration and Finance indicated that there was a strong desire to appoint an architect for the Medical School despite the Board recommendation that no architect be appointed until a Dean is selected, but that the question of selection of an architect for that school would be removed from the immediate agenda of the meeting. The Chairman reported that he and Dr. Boyden had been requested by the Commissioner to meet with the Commissioner and the Governor on December 19, 1962. After general discussion, there was a consensus among the members of the committee that the position of the Board should be fully reconfirmed, especially with respect to delaying the selection of architects for the Medical School until such time as a Dean of that School has been appointed.

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Report on the Master Plan - southwest area - dormitory and dining facilities

Dormitories

The Chairman introduced Dean William Field, Dean of Students, for the purpose of presenting to the committee the attached proposal for residence and dining facilities in the southwest area of the campus which had been taken up by the Master Planning Committee. Dean Field indicated that review of the undergraduate enrollment projection prepared by the Office of Institutional Studies of the University shows a need for 5,000 beds and 2,550 dining seats to meet the requirements by September 1969. This follows the capital outlay program adopted by the Trustees last April. Dean Field suggested that the request for these facilities can be made most logically in terms of three project groups each of which may be developed as an integrated dining and residence unit. To supplement his remarks, Dean Field distributed documents showing the dormitory and dining facilities requested, date required, and estimated cost. After general discussion and upon motion being duly made and seconded, it was

VOTED: To recommend to the Board that it accept in principle the projects and schedule as outlined in Document 63-068 and to notify the Massachusetts Building Authority of the decision of the Board.

Trustee Pumphret, Chairman of the University of Massachusetts Building Authority, commended Dean Field on the preparation of the data papers on dormitory and dining commons needs. He reported to the committee that a meeting would be set up with the architect, Hugh Stubbins & Associates, representative of the Building Authority, the Chairman of the Buildings & Grounds Committee and representatives of the University administration. Mr. Stubbins is working on the design of this dormitory area for the Authority.

Office of Planning Engineer

The Chairman reported to the committee that he has requested the designation of the Office of Planning Engineer as the central point for the collection of data and deposit of reports and official documents relevant to the master plan, construction on campus, land acquisition and all other relevant matters.

French Property

The Treasurer reported to the committee that the completion of the acquisition of land desired to establish the northeast corner of the University boundary requires the acquisition of the property of a Mr. Peter French. This property includes approximately 1 acre on which is located a house with two apartments. It is north of the University and lies next to the Adams Farm. The Treasurer reported that he has two appraisals of the property - one for $10,300 and the other for $11,500. The University holds an option to purchase the French property in the amount of $11,500. After general discussion and upon motion being duly made and seconded, it was

UNIVERSITY OF MASSACHUSETTS

COMMITTEE

VOTED: To recommend to the Board of Trustees authorization to purchase the French property for $11,500 providing that the University will honor the rental leases on the apartments in the property for twelve months from the date of deed with the rent for the promises being paid to the University and on the further condition that real estate taxes on the property will be pro-rated as of the date of deed.

Reactions to the University Faculty Housing Policy

Faculty Housing

The committee acknowledged receipt of information from faculty members regarding the new faculty housing policy adopted by the Board at the meeting of October 4, 1962. After general discussion, the consensus of the members of the committee was satisfaction with the new policy and with the position of the University administration pursuant thereto.

There being no further business, the meeting adjourned at 4:30 p.m.

John W. Ryan
Secretary, Board of Trustees

63-068

Southwest Residence Area

1.

An analysis of the graduate and undergraduate enrollment projections prepared by the Office of Institutional Studies indicates a need for 5000 beds and 2550 dining seats to be provided by September of 1969. The requests for these facilities can be made most logically in terms of three project groups, each to be developed as an integrated dining and residence unit.

The projects outlined in Groups I and II are clearly designated for the southwest area. The inclusion of the Group III projects would raise the occupancy of the area to 5000 and may exceed the desirable capacity for the area. In this event relocation in another area would be necessary for aller part of this group.

GROUP I	DATE REQUIRED	ESTIMATED COST
Dormitory G 1000 Beds (Already requested)	Sept. 1964	
Dormitory H 800 Beds	Sept. 1965	$3,500,000
Dining Commons III 850 Seats (350 seat decrease; $600,00 cost decrease)	Sept. 1965	2,000,000

The preceding three projects should be designed and constructed as an integrated unit. The functional relationships required for coordinated dining and residence facilities are such that the entire complex should be operative by September, 1965.

GROUP II	DATE REQUIRED	ESTIMATED COST
Dormitory I 800 Beds	Sept. 1966	$3,680,000
Dormitory J 900 Beds (100 bed increase; $460,000 cost increase)	Sept. 1967	4,140,000
Dining Commons IV 850 Seats (Date required advanced from Sept. 1969 to Sept. 1967; 350 seat decrease; $567,000 cost decrease)	Sept. 1967	2,190,000

The preceding three projects should be designed and constructed as an integrated unit. The functional relationships required for coordinated dining and residence facilities are such that the entire complex should be completely operative by September 1967.

SOUTHWEST RESIDENCE AREA DINING COMMONS AND DORMITORY PROJECTS

PRELIMINARY ESTIMATES OF DESIGN AND CONSTRUCTION TIMES

PROJECT DESCRIPTION	PRELIMINARY PLANS	FINAL PLANS	BID PERIOD	CONSTRUCTION TIME	COMPLETION DATE
Dormitory G (1000 beds)	In progress	-	-	-	9/1/64
*Dormitory H (800 beds)	1/1/63 to 5/1/63 (4 months)	5/1/63 to 10/1/63 (5 months)	10/1/63 to 1/1/64 (3 months)	1/1/64 to 9/1/65 (20 months)	9/1/65
*Dining Commons III (840 seats)	As above	Same as above	Same as above	Same as above	9/1/65
*Dormitory I (600 beds)	3/2/63 to 9/1/63 (6 months)	9/1/63 to 4/1/64 (7 months)	4/1/64 to 7/1/64 (3 months)	7/1/64 to 8/1/66 (25 months)	8/1/66
Dormitory J (900 beds)	1/1/64 to 7/1/64 (6 months)	7/1/64 to 2/1/65 (7 months)	2/1/65 to 5/1/65 (3 months)	5/1/65 to 8/1/67 (27 months)	8/1/67
Dining Commons IV	As above	Same as above	Same as above.	Same as above	8/1/67
Dormitory K (900 beds)	1/1/65 to 7/1/65 (6 months)	7/1/65 to 2/1/66 (7 months)	2/1/66 to 5/1/66 (3 months)	5/1/66 to 8/1/68 (27 months)	8/1/68
Dormitory L (900 beds)	1/1/66 to 7/1/66 (6 months)	7/1/66 to 2/1/67 (7 months)	2/1/67 to 5/1/67 (3 months)	5/1/67 to 8/1/69 (27 months)	8/1/69
Dining Commons V (840 seats)	As above	Same as above	Same as above	Same as above	8/1/69

* For immediate action

Office of the Dean of Students
12/20/62

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